

SAFETY DATA SHEET (1907/2006)

R0704399 Revision Date: 2018-06-28 Version: 1

Silipon RN 6031 D

Annex: Exposure Scenarios

Index

1. Formulation of mixtures (industrial, professional, consumer) SU10, SU19; ERC2; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC13, PROC14, PROC15

2. End use (industrial, professional) SU3, SU9, SU12, SU11, SU19; ERC4; PROC1, PROC2, PROC4, PROC7, PROC10, PROC13, PROC14, PROC17, PROC24

3. End use (industrial, professional) SU19; ERC5; PROC7, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC14

4. End use (industrial, professional) SU3; ERC8a; PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19

5. End use (industrial, professional) SU22; ERC8b; PROC1, PROC8b

6. End use (industrial, professional) SU19; ERC8c; PROC1, PROC2, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13, PROC14

7. End use (industrial, professional) SU3, SU19; ERC8d; PROC8a, PROC8b, PROC10, PROC11, PROC13

8. End use (industrial, professional) SU19; ERC8f; PROC8a, PROC10, PROC11, PROC13

9. Service life of articles SU19; ERC10a; AC13

10.Service life of articles SU19; ERC11a; AC13

11.Consumer applications SU21; ERC8d; PC1, PC8, PC9a, PC9b

12.Consumer applications SU21; ERC8f; PC1, PC9a, PC9b

R0704399 Version 1 Revision date: 2018-06-28 Page 1 of 124

1. Short title of exposure scenario

Formulation of mixtures (industrial, professional, consumer) SU10, SU19; ERC2; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC13, PROC14, PROC15

Control of exposure and risk management measures

Contributing exposure scenario		-
Use descriptors covered	AISE SPERC 2.1.a.v2: Al	SE SPERC 2.1.a.v2
Operational conditions		
Annual amount used in the EU	3,500,000 kg	
Minimum emission days per year	250	
Emission factor air	0 %	
Emission factor water	0.01 %	
Emission factor soil	0 %	
Receive Surf. Water (Flow Rate).	18,000 m3/d	
Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures		
Wastewater treatment measures considered suitable are, e.g.		Precipitation, Coagulation, Must be eliminated from water by chemical flocculation.
Type of STP		Municipal STP
Assumed sewage treatment plant flow	,	2,000 m3/d
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v3.6, ECETOO	CTRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.027055	
	Risk from environmental e water.	exposure is driven by marine
Maximum amount of safe use	517,457.8 kg/d	
Risk from environmental exposure is d	, and the second	

Contributing exposure scenario		
Use descriptors covered	COLIPA SPERC 2.1.a.v1: COLIPA SPERC 2.1.a.v1	
Operational conditions		
Annual amount used in the EU	3,500,000 kg	
Minimum emission days per year	220	
Emission factor air	0 %	
Emission factor water	0.1 %	

R0704399 Version 1 Revision date: 2018-06-28 Page 2 of 124

Emission factor soil	0 %		
Receive Surf. Water (Flow Rate).	18,000 m3/d		
Dilution factor river	10		
Dilution factor coast	100		
Risk Management Measures	Risk Management Measures		
Type of STP		Municipal STP	
Assumed sewage treatment plant flow ((m3/d)	2,000 m3/d	
Exposure estimate and reference to its source			
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment		
Risk Characterization Ratio (RCR)	0.108062		
	Risk from environmental exposure is driven by soil.		
Maximum amount of safe use	147,222.2 kg/d		
Risk from environmental exposure is driven by soil.			

Contributing exposure scenario			
Use descriptors covered	EFCC SPERC 2.1c.v1: EF	CC SPERC 2.1c.v1	
Operational conditions			
Annual amount used in the EU	1,000,000 kg	1,000,000 kg	
Minimum emission days per year	220		
Emission factor air	0 %	0 %	
Emission factor water	0.5 %		
Emission factor soil	0 %		
Receive Surf. Water (Flow Rate).	18,000 m3/d		
Dilution factor river	10		
Dilution factor coast	100		
Risk Management Measures			
Type of STP Municipal STP		Municipal STP	
Assumed sewage treatment plant flow (m3/d) 2,000 m3/d		2,000 m3/d	
Exposure estimate and reference to its source			
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment		
Risk Characterization Ratio (RCR)	0.147922		
	Risk from environmental exposure is driven by soil.		
Maximum amount of safe use	30,728.7		
	kg/d		
Risk from environmental exposure is d	riven by soil.		

R0704399 Version 1 Revision date: 2018-06-28 Page 3 of 124

Contributing exposure scenario		
Use descriptors covered	ERC2: Formulation of prep	parations
Operational conditions	1	
Annual amount used in the EU	3,500,000 kg	
Minimum emission days per year	340	
Emission factor air	2.5 %	
Emission factor water	0.002 %0	
Emission factor soil	0.01 %	
	Values provided in per mill	
Receive Surf. Water (Flow Rate).	18,000 m3/d	
Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures	I.	
Type of STP		Municipal STP
Assumed sewage treatment plant flow	(m3/d)	2,000 m3/d
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment	
Risk Characterization Ratio (RCR)	0.02027	
	Risk from environmental exposure is driven by marine	
	water.	
	507,856.3	
Maximum amount of safe use	kg/d	
Risk from environmental exposure is dr	iven by marine water.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. Use domain: industrial
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	

R0704399 Version 1 Revision date: 2018-06-28 Page 4 of 124

Llee eviteble elementedly registers	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to it	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.00008
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.12 mg/m³
Risk Characterization Ratio (RCR)	0.000421
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
PROC1: Use in closed process, no	likelihood of exposure. Use descriptors covered Use
domain: industrial	
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000008
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.01 mg/m³
Risk Characterization Ratio (RCR)	0.000035
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	'tra

Contributing exposure scenario	

R0704399 Version 1 Revision date: 2018-06-28 Page 5 of 124

Use descriptors covered	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: professional
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	o its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000338
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0.017544
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org	y/tra

Contributing exposure scenario	
Use descriptors covered	PROC2: Use in closed, continuous process with occasional controlled exposure.
	Use domain: industrial
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	

R0704399 Version 1 Revision date: 2018-06-28 Page 6 of 124

Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	1.3714 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000338	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	12 mg/m³	
Risk Characterization Ratio (RCR)	0.042105	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario	Contributing exposure scenario	
Use descriptors covered	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: industrial	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %	
Physical state	Solid, high dustiness	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Avoid skin contact.		
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	1.3714 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000338	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
-	Worker - inhalation, long-term - systemic	
Exposure estimate	1 mg/m³	
Risk Characterization Ratio (RCR)	0.003509	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

R0704399 Version 1 Revision date: 2018-06-28 Page 7 of 124

Contributing exposure scenario		
Use descriptors covered	PROC3: Use in closed batch process (synthesis or formulation). Use domain: professional	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %	
Physical state	Solid, high dustiness	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Avoid skin contact.		
Use suitable chemically resistant gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	0.6857 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000169	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m³	
Risk Characterization Ratio (RCR)	0.017544	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario	
Use descriptors covered	PROC3: Use in closed batch process (synthesis or formulation). Use domain: industrial
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

R0704399 Version 1 Revision date: 2018-06-28 Page 8 of 124

Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000169
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	36 mg/m³
Risk Characterization Ratio (RCR)	0.126316
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	Contributing exposure scenario	
Use descriptors covered	PROC3: Use in closed batch process (synthesis or formulation). Use domain: professional	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Avoid skin contact.		
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	0.6857 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000169	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	36 mg/m³	
Risk Characterization Ratio (RCR)	0.126316	

R0704399 Version 1 Revision date: 2018-06-28 Page 9 of 124

Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC3: Use in closed batch process (synthesis or formulation). Use domain: industrial
Operational conditions	_1
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	o its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000169
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m³
Risk Characterization Ratio (RCR)	0.003509
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org	g/tra

Contributing exposure scenario	
Use descriptors covered	PROC3: Use in closed batch process (synthesis or formulation). Use domain: professional
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C

R0704399 Version 1 Revision date: 2018-06-28 Page 10 of 124

480 min 5 days per week	
Indoor	
its source	
EASY TRA v3.6, ECETOC TRA v3.0, Worker	
Worker - dermal, long-term - systemic	
0.6857 mg/kg bw/day	
0.000169	
EASY TRA v3.6, ECETOC TRA v3.0, Worker	
Worker - inhalation, long-term - systemic	
5 mg/m³	
0.017544	
Guidance to Downstream Users	
tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. Use domain: industrial
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic
Exposure estimate	6.8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001689
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker

R0704399 Version 1 Revision date: 2018-06-28 Page 11 of 124

	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m³
Risk Characterization Ratio (RCR)	0.210526
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. Use domain: industrial
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001689
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	25 mg/m³
Risk Characterization Ratio (RCR)	0.087719
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org	g/tra

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). Use domain: professional
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %

R0704399 Version 1 Revision date: 2018-06-28 Page 12 of 124

Physical state	Solid, high dustiness			
Vapour pressure of the substance during use	0.18 Pa			
Process temperature	20 °C			
Duration and Frequency of activity	480 min 5 days per week			
Indoor/Outdoor	Indoor			
Risk Management Measures				
Avoid skin contact.				
Use suitable chemically resistant				
gloves., Wear suitable coveralls to				
prevent exposure to the skin.				
Avoid contact with eyes.				
Use suitable eye protection.				
Exposure estimate and reference to	its source			
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker			
	Worker - dermal, long-term - systemic			
Exposure estimate	13.7143 mg/kg bw/day			
Risk Characterization Ratio (RCR)	0.003378			
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker			
	Worker - inhalation, long-term - systemic			
Exposure estimate	50 mg/m³			
Risk Characterization Ratio (RCR)	0.175439			
Guidance to Downstream Users				
For scaling see: http://www.ecetoc.org/	tra			

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). Use domain: industrial
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source

R0704399 Version 1 Revision date: 2018-06-28 Page 13 of 124

Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker		
	Worker - dermal, long-term - systemic		
Exposure estimate	13.7143 mg/kg bw/day		
Risk Characterization Ratio (RCR) 0.003378			
Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker			
	Worker - inhalation, long-term - systemic		
Exposure estimate 60 mg/m³			
Risk Characterization Ratio (RCR) 0.210526			
Guidance to Downstream Users			
For scaling see: http://www.ecetoc.org/tra			

Contributing exposure scenario				
Use descriptors covered	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). Use domain: professional			
Operational conditions				
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %			
Physical state	liquid			
Vapour pressure of the substance during use	0.18 Pa			
Process temperature	20 °C			
Duration and Frequency of activity	480 min 5 days per week			
Indoor/Outdoor	Indoor			
Risk Management Measures				
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %			
Avoid skin contact.				
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.				
Avoid contact with eyes.				
Use suitable eye protection.	Management of the second of th			
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.			
	Worker - dermal, long-term - systemic			
Exposure estimate	0.1371 mg/kg bw/day			
Risk Characterization Ratio (RCR)	0.000034			
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker			
	Worker - inhalation, long-term - systemic			
Exposure estimate	120 mg/m³			
Risk Characterization Ratio (RCR)	0.421053			
Guidance to Downstream Users				
For scaling see: http://www.ecetoc.org exposure estimates)	/tra Please note that a modified version has been used (see			

R0704399 Version 1 Revision date: 2018-06-28 Page 14 of 124

Contributing exposure scenario			
Use descriptors covered	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). Use domain: industrial		
Operational conditions	1		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %		
Physical state	Solid, high dustiness		
Vapour pressure of the substance during use	0.18 Pa		
Process temperature	20 °C		
Duration and Frequency of activity	480 min 5 days per week		
Indoor/Outdoor	Indoor		
Risk Management Measures			
Avoid skin contact.			
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.			
Avoid contact with eyes.			
Use suitable eye protection.			
Exposure estimate and reference to			
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic		
Exposure estimate	13.7143 mg/kg bw/day		
Risk Characterization Ratio (RCR)	0.003378		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic		
Exposure estimate	25 mg/m³		
Risk Characterization Ratio (RCR)	0.087719		
Guidance to Downstream Users	•		
For scaling see: http://www.ecetoc.org/	/tra		

Contributing exposure scenario				
Use descriptors covered	PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). Use domain: professional			
Operational conditions				
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %			
Physical state	Solid, high dustiness			
Vapour pressure of the substance during use	0.18 Pa			
Process temperature	20 °C			

R0704399 Version 1 Revision date: 2018-06-28 Page 15 of 124

Duration and Frequency of activity	480 min 5 days per week			
Indoor/Outdoor	Indoor			
Risk Management Measures	•			
Wear chemically resistant gloves in				
combination with intensive	Effectiveness: 99 %			
management supervision control.				
Avoid skin contact.				
Use suitable chemically resistant				
gloves., Wear suitable coveralls to				
prevent exposure to the skin.				
Avoid contact with eyes.				
Use suitable eye protection.				
Exposure estimate and reference to	its source			
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified			
Assessment method	version, ECETOC TRA modified version: Use of gloves			
	has been considered additionally.			
	Worker - dermal, long-term - systemic			
Exposure estimate	0.1371 mg/kg bw/day			
Risk Characterization Ratio (RCR)	0.000034			
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker			
	Worker - inhalation, long-term - systemic			
Exposure estimate	50 mg/m³			
Risk Characterization Ratio (RCR)	0.175439			
Guidance to Downstream Users				
For scaling see: http://www.ecetoc.org	/tra Please note that a modified version has been used (see			
exposure estimates)				

Contributing exposure scenario			
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: industrial		
Operational conditions			
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %		
Physical state	liquid		
Vapour pressure of the substance during use	0.18 Pa		
Process temperature	20 °C		
Duration and Frequency of activity	480 min 5 days per week		
Indoor/Outdoor	Indoor		
Risk Management Measures			
Avoid skin contact.			
Use suitable chemically resistant			
gloves., Wear suitable coveralls to			
prevent exposure to the skin.			
Avoid contact with eyes.			
Use suitable eye protection.			

R0704399 Version 1 Revision date: 2018-06-28 Page 16 of 124

Exposure estimate and reference to its source				
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker			
	Worker - dermal, long-term - systemic			
Exposure estimate	13.7143 mg/kg bw/day			
Risk Characterization Ratio (RCR)	0.003378			
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker			
	Worker - inhalation, long-term - systemic			
Exposure estimate	120 mg/m³			
Risk Characterization Ratio (RCR)	0.421053			
Guidance to Downstream Users				
For scaling see: http://www.ecetoc.org/tra				

Contributing exposure scenario			
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: industrial		
Operational conditions			
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %		
Physical state	Solid, high dustiness		
Vapour pressure of the substance during use	0.18 Pa		
Process temperature	20 °C		
Duration and Frequency of activity	480 min 5 days per week		
Indoor/Outdoor	Indoor		
Risk Management Measures			
Avoid skin contact.			
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.			
Avoid contact with eyes.			
Use suitable eye protection.			
Exposure estimate and reference to	its source		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker		
	Worker - dermal, long-term - systemic		
Exposure estimate	13.7143 mg/kg bw/day		
Risk Characterization Ratio (RCR)	0.003378		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker		
	Worker - inhalation, long-term - systemic		
Exposure estimate	50 mg/m³		
Risk Characterization Ratio (RCR)	0.175439		
Guidance to Downstream Users			
For scaling see: http://www.ecetoc.org	g/tra		

Cor	Contributing exposure scenario					

R0704399 Version 1 Revision date: 2018-06-28 Page 17 of 124

	PROC8b: Transfer of substance or preparation
	(charging/discharging) from/to vessels/large containers
Use descriptors covered	at dedicated facilities Use domain: industrial
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	0.18 Pa
during use	
Process temperature	20 °C
·	400 min E days nor week
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	-
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m³
Risk Characterization Ratio (RCR)	0.210526
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org	/tra

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate
	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week

R0704399 Version 1 Revision date: 2018-06-28 Page 18 of 124

Indoor/Outdoor	Indoor		
Risk Management Measures			
Wear chemically resistant gloves in			
combination with intensive	Effectiveness: 99 %		
management supervision control.			
Avoid skin contact.			
Use suitable chemically resistant			
gloves., Wear suitable coveralls to			
prevent exposure to the skin.			
Avoid contact with eyes.			
Use suitable eye protection.			
Exposure estimate and reference to	Exposure estimate and reference to its source		
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified		
Assessment method	version, ECETOC TRA modified version: Use of gloves		
	has been considered additionally.		
	Worker - dermal, long-term - systemic		
Exposure estimate	0.1371 mg/kg bw/day		
Risk Characterization Ratio (RCR)	0.000034		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker		
	Worker - inhalation, long-term - systemic		
Exposure estimate	72 mg/m³		
Risk Characterization Ratio (RCR)	0.252632		
Guidance to Downstream Users			
For scaling see: http://www.ecetoc.org.	tra Please note that a modified version has been used (see		
exposure estimates)			

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker

R0704399 Version 1 Revision date: 2018-06-28 Page 19 of 124

	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	25 mg/m³
Risk Characterization Ratio (RCR)	0.087719
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: professional
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive	Effectiveness: 99 %
management supervision control.	Lifectiveness. 99 76
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	30 mg/m³
Risk Characterization Ratio (RCR)	0.105263
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.orgexposure estimates)	g/tra Please note that a modified version has been used (see

R0704399 Version 1 Revision date: 2018-06-28 Page 20 of 124

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001689
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	20 mg/m³
Risk Characterization Ratio (RCR)	0.070175
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	/tra

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	0.18 Pa
during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

R0704399 Version 1 Revision date: 2018-06-28 Page 21 of 124

Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001689
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m³
Risk Characterization Ratio (RCR)	0.210526
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario		
Contributing exposure scenario	Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	240 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %	
Avoid skin contact.		
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to	Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.	
	Worker - dermal, long-term - systemic	
Exposure estimate	0.0686 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000017	

R0704399 Version 1 Revision date: 2018-06-28 Page 22 of 124

Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	72 mg/m³
Risk Characterization Ratio (RCR)	0.252632
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	
exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001689
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	20 mg/m³
Risk Characterization Ratio (RCR)	0.070175
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	'tra

Contributing exposure scenario		
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional	
Operational conditions		
	Sodium dodecyl sulphate	
Concentration of the substance	Content: >= 0 % - <= 100 %	

R0704399 Version 1 Revision date: 2018-06-28 Page 23 of 124

Physical state	Solid, high dustiness
Vapour pressure of the substance	0.18 Pa
during use	
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000017
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	12 mg/m³
Risk Characterization Ratio (RCR)	0.042105
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	
exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
	P 1
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	

R0704399 Version 1 Revision date: 2018-06-28 Page 24 of 124

Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m³
Risk Characterization Ratio (RCR)	0.421053
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario		
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring.	
- CCC GCCCIPICIO CCVCICG	Use domain: professional	
	Soc domain. protosolonal	
Operational conditions		
	Sodium dodecyl sulphate	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, high dustiness	
Vapour pressure of the substance	0.18 Pa	
during use		
Process temperature	20 °C	
1 Tocess temperature		
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13.7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.003378	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m³	
Risk Characterization Ratio (RCR)	0.017544	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

R0704399 Version 1 Revision date: 2018-06-28 Page 25 of 124

Contributing exposure scenario	
Use descriptors covered	PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelettisation. Use domain: industrial
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to i	ts source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	3.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000844
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10 mg/m³
Risk Characterization Ratio (RCR)	0.035088
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario	
Use descriptors covered	PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelettisation. Use domain: industrial
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	0.18 Pa
during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

R0704399 Version 1 Revision date: 2018-06-28 Page 26 of 124

Risk Management Measures			
Avoid skin contact.			
Use suitable chemically resistant			
gloves., Wear suitable coveralls to			
prevent exposure to the skin.			
Avoid contact with eyes.			
Use suitable eye protection.			
Exposure estimate and reference to	Exposure estimate and reference to its source		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker		
	Worker - dermal, long-term - systemic		
Exposure estimate	3.4286 mg/kg bw/day		
Risk Characterization Ratio (RCR)	0.000844		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker		
	Worker - inhalation, long-term - systemic		
Exposure estimate	60 mg/m³		
Risk Characterization Ratio (RCR)	0.210526		
Guidance to Downstream Users			
For scaling see: http://www.ecetoc.org/tra			

Contributing symposure seemeric		
Contributing exposure scenario		
	PROC14: Production of preparations or articles by	
Use descriptors covered	tabletting, compression, extrusion, pelettisation. Use domain: industrial	
·	Ose domain. Industrial	
Operational conditions	<u> </u>	
•	Sodium dodecyl sulphate	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, high dustiness	
Vapour pressure of the substance	0.18 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to it	ts source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	3.4286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000844	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	10 mg/m³	
Risk Characterization Ratio (RCR)	0.035088	
Guidance to Downstream Users		

R0704399 Version 1 Revision date: 2018-06-28 Page 27 of 124

For scaling see: http://www.ecetoc.org/tra

	PROC15: Use a laboratory reagent.
Use descriptors covered	Use domain: industrial
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate
	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	o its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.3429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000084
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m³
Risk Characterization Ratio (RCR)	0.210526
Guidance to Downstream Users	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C

R0704399 Version 1 Revision date: 2018-06-28 Page 28 of 124

Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant	
•	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.3429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000084
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m³
Risk Characterization Ratio (RCR)	0.210526
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
3 • p • • • • • • • • • • • • • • • • • • •	PROC15: Use a laboratory reagent.
Use descriptors covered	Use domain: industrial
•	
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance	0.18 Pa
during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.3429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000084
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker

R0704399 Version 1 Revision date: 2018-06-28 Page 29 of 124

Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0.017544
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	DDOC45: Has a laboratory respect
Llos descriptore severed	PROC15: Use a laboratory reagent. Use domain: industrial
Use descriptors covered	Ose domain. Industrial
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance	0.18 Pa
during use	
Process temperature	20 °C
Burth at Europe of a first	480 min 5 days per week
Duration and Frequency of activity	
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	o its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.3429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000084
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0.017544
Guidance to Downstream Users	•
For scaling see: http://www.ecetoc.org	g/tra

* * * * * * * * * * * * * * * *

2. Short title of exposure scenario

End use (industrial, professional)

SU3, SU9, SU12, SU11, SU19; ERC4; PROC1, PROC2, PROC4, PROC7, PROC10, PROC13, PROC14, PROC17, PROC24

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	AISE SPERC 4.1.v2: AISE SPERC 4.1.v2

R0704399 Version 1 Revision date: 2018-06-28 Page 30 of 124

Operational conditions		
Annual amount used in the EU	500,000 kg	
Minimum emission days per year	220	
Emission factor air	0 %	
Emission factor water	100 %	
Emission factor soil	0 %	
Receive Surf. Water (Flow Rate).	18,000 m3/d	
Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures		
Type of STP		Municipal STP
**		2,000 m3/d
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment	
Risk Characterization Ratio (RCR)	0.320832	
	Risk from environmental e	xposure is driven by wastewater
	treatment plant microbes.	
	155.8	
Maximum amount of safe use	kg/d	
Risk from environmental exposure is d	riven by wastewater treatmer	nt plant microbes.

Contributing exposure scenario		
Use descriptors covered	EFCC SPERC 4.1a.v1: EFCC SPERC 4.1a.v1	
Operational conditions		
Annual amount used in the EU	3,500,000 kg	
Minimum emission days per year	220	
Emission factor air	98.5 %	
Emission factor water	0 %	
Emission factor soil	0 %	
Receive Surf. Water (Flow Rate).	18,000 m3/d	
Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures	,	
Type of STP	Municipal STP	

R0704399 Version 1 Revision date: 2018-06-28 Page 31 of 124

Assumed sewage treatment plant flow (m3/d)		2,000 m3/d
Exposure estimate and reference to its source		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment	
Risk Characterization Ratio (RCR)	0.020408	
	Risk from environmental ex	cposure is driven by soil.
	98,003.1	
Maximum amount of safe use	kg/d	
Risk from environmental exposure is driven by soil.		

Contributing exposure scenario			
Use descriptors covered	ERC4: Industrial use of processing aids in processes and products, not becoming part of articles		
Operational conditions			
Annual amount used in the EU	3,500,000 kg		
Minimum emission days per year	340		
Emission factor air	2.5 %	2.5 %	
Emission factor water	0.002 %0		
Emission factor soil	0.01 %		
	Values provided in per mill		
Receive Surf. Water (Flow Rate).	18,000 m3/d		
Dilution factor river	10		
Dilution factor coast	100		
Risk Management Measures			
Type of STP		Municipal STP	
Assumed sewage treatment plant flow	(m3/d)	2,000 m3/d	
Exposure estimate and reference to			
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment		
Risk Characterization Ratio (RCR)	0.02027		
	Risk from environmental exwater.	xposure is driven by marine	
Maximum amount of safe use	507,856.3 kg/d		
Risk from environmental exposure is di	riven by marine water.		

Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. Use domain: industrial
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %

R0704399 Version 1 Revision date: 2018-06-28 Page 32 of 124

Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, The duration of activity has been considered using
	a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.00008
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, The duration of activity has been considered using
	a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	0.12 mg/m³
Risk Characterization Ratio (RCR)	0.000421
Guidance to Downstream Users	<u> </u>
For scaling see: http://www.ecetoc.org	g/tra Please note that a modified version has been used (see
exposure estimates)	

Contributing exposure scenario		
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. Use domain: industrial	
Operational conditions		
	Sodium dodecyl sulphate	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, high dustiness	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Avoid skin contact.		

R0704399 Version 1 Revision date: 2018-06-28 Page 33 of 124

Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, The duration of activity has been considered using
	a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000008
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, The duration of activity has been considered using
	a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	0.01 mg/m³
Risk Characterization Ratio (RCR)	0.000035
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org	/tra Please note that a modified version has been used (see
exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: industrial
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	1.3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000338

R0704399 Version 1 Revision date: 2018-06-28 Page 34 of 124

	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified	
Assessment method	version, The duration of activity has been considered using	
	a linear approach.	
	Worker - inhalation, long-term - systemic	
Exposure estimate	12 mg/m³	
Risk Characterization Ratio (RCR)	0.042105	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see		
exposure estimates)		

Contributing exposure scenario		
Use descriptors covered	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: industrial	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate	
	Content: >= 0 % - <= 100 %	
Physical state	Solid, high dustiness	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.	
	Worker - dermal, long-term - systemic	
Exposure estimate	1.3714 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000338	
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified	
Assessment method	version, The duration of activity has been considered using	
	a linear approach.	
Function at install	Worker - inhalation, long-term - systemic	
Exposure estimate	1 mg/m³	
Risk Characterization Ratio (RCR)	0.003509	
Guidance to Downstream Users	Alex Discounts that a second of the second o	
	g/tra Please note that a modified version has been used (see	
exposure estimates)		

Contributing expo	sure scenario	

R0704399 Version 1 Revision date: 2018-06-28 Page 35 of 124

Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. Use domain: industrial	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach. Worker - dermal, long-term - systemic	
Exposure estimate	6.8571 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.001689	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.	
	Worker - inhalation, long-term - systemic	
Exposure estimate	60 mg/m³	
Risk Characterization Ratio (RCR)	0.210526	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.orgexposure estimates)	g/tra Please note that a modified version has been used (see	

Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. Use domain: industrial
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C

R0704399 Version 1 Revision date: 2018-06-28 Page 36 of 124

Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	6.8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001689
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach. Worker - inhalation, long-term - systemic
Exposure estimate	25 mg/m³
Risk Characterization Ratio (RCR)	0.087719
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org exposure estimates)	/tra Please note that a modified version has been used (see

Contributing exposure scenario		
	PROC7: Industrial spraying	
Use descriptors covered	Use domain: industrial	
Operational conditions		
	Sodium dodecyl sulphate	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Wear suitable respiratory protection.	Effectiveness: 95 %	
Wear chemically resistant gloves in		
combination with intensive	Effectiveness: 99 %	
management supervision control.		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		

R0704399 Version 1 Revision date: 2018-06-28 Page 37 of 124

Use suitable eye protection.	
Exposure estimate and reference to its source	
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000106
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m³
Risk Characterization Ratio (RCR)	0.210526
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	
exposure estimates)	- -

Contributing exposure scenario		
Use descriptors covered	PROC7: Industrial spraying Use domain: industrial	
Ose descriptors covered	Ose domain. industrial	
Operational conditions		
	Sodium dodecyl sulphate	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, high dustiness	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Wear suitable respiratory protection.	Effectiveness: 95 %	
Wear chemically resistant gloves in		
combination with intensive	Effectiveness: 99 %	
management supervision control.		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified	
Assessment method	version, ECETOC TRA modified version: Use of gloves	
	has been considered additionally.	
	Worker - dermal, long-term - systemic	
Exposure estimate	0.4286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000106	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	

R0704399 Version 1 Revision date: 2018-06-28 Page 38 of 124

Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0.017544
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	
exposure estimates)	

Use descriptors covered	PROC10: Roller application or brushing Use domain: industrial
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in	Effectiveness: 99 %
combination with intensive	
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000068
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m³
Risk Characterization Ratio (RCR)	0.421053
Guidance to Downstream Users	
	/tra Please note that a modified version has been used (see
exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: industrial

R0704399 Version 1 Revision date: 2018-06-28 Page 39 of 124

Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance	0.18 Pa
during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000068
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10 mg/m³
Risk Characterization Ratio (RCR)	0.035088
Guidance to Downstream Users	
	g/tra Please note that a modified version has been used (see
exposure estimates)	

Contributing exposure scenario	
PROC13: Treatment of articles by domain: industrial	dipping and pouring. Use descriptors covered Use
Operational conditions	·
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

R0704399 Version 1 Revision date: 2018-06-28 Page 40 of 124

Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m³
Risk Characterization Ratio (RCR)	0.421053
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	tra Please note that a modified version has been used (see
exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	

R0704399 Version 1 Revision date: 2018-06-28 Page 41 of 124

Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0.017544
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	

exposure estimates)

Contributing exposure scenario		
Use descriptors covered	PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelettisation. Use domain: industrial	
Operational conditions		
	Sodium dodecyl sulphate	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Wear chemically resistant gloves in		
combination with intensive	Effectiveness: 99 %	
management supervision control.		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified	
Assessment method	version, ECETOC TRA modified version: Use of gloves	
	has been considered additionally.	
	Worker - dermal, long-term - systemic	
Exposure estimate	0.0343 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000008	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	60 mg/m³	
Risk Characterization Ratio (RCR)	0.210526	
Guidance to Downstream Users		

Page 42 of 124 R0704399 Revision date: 2018-06-28 Version 1

For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)

Use descriptors covered	PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelettisation. Use domain: industrial	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %	
Physical state	Solid, high dustiness	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %	
Avoid skin contact.		
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to	o its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic	
Exposure estimate	0.0343 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000008	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
. ioooomoni mamaa	Worker - inhalation, long-term - systemic	
Exposure estimate	10 mg/m³	
Risk Characterization Ratio (RCR)	0.035088	
Guidance to Downstream Users	1	

Contributing exposure scenario	
Use descriptors covered	PROC17: Lubrication at high energy conditions and in partly open process. Use domain: industrial
Operational conditions	

R0704399 Version 1 Revision date: 2018-06-28 Page 43 of 124

	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Concentration of the substance	Content. >= 0 /0 = <= 100 /0
Physical state	liquid
Vapour pressure of the substance	0.18 Pa
during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves has
Assessment method	been considered additionally., The duration of activity has
	been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000068
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, The duration of activity has been considered using
	a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	24 mg/m³
Risk Characterization Ratio (RCR)	0.084211
Guidance to Downstream Users	
,	tra Please note that a modified version has been used (see
exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC17: Lubrication at high energy conditions and in partly open process. Use domain: industrial
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance	0.18 Pa
during use	

R0704399 Version 1 Revision date: 2018-06-28 Page 44 of 124

Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally., The duration of activity has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000068
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0.017544
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/ exposure estimates)	tra Please note that a modified version has been used (see

Contributing exposure scenario	
Use descriptors covered	PROC24: High (mechanical) energy work-up of substances bound in materials and/or articles Use domain: industrial
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

R0704399 Version 1 Revision date: 2018-06-28 Page 45 of 124

Local exhaust ventilation	Effectiveness: 100 %	
Wear chemically resistant gloves in		
combination with intensive	Effectiveness: 99 %	
management supervision control.		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to its source		
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified	
Assessment method	version, ECETOC TRA modified version: Use of gloves	
	has been considered additionally.	
	Worker - dermal, long-term - systemic	
Exposure estimate	0.0283 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000007	
Assessment method	Qualitative assessment	
	Worker - inhalation	
Guidance to Downstream Users	•	
For scaling see: http://www.ecetoc.org/	tra Please note that a modified version has been used (see	
exposure estimates)	·	

* * * * * * * * * * * * * * * *

3. Short title of exposure scenario

End use (industrial, professional)

SU19; ERC5; PROC7, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC14

Control of exposure and risk management measures

Contributing exposure scenario		
Use descriptors covered	EFCC SPERC 5.1a.v1: EFCC SPERC 5.1a.v1	
Operational conditions		
Annual amount used in the EU	3,500,000 kg	
Minimum emission days per year	220	
Emission factor air	1.7 %	
Emission factor water	0 %	
Emission factor soil	0 %	
Receive Surf. Water (Flow Rate).	18,000 m3/d	
Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures	-	
Type of STP		Municipal STP
Assumed sewage treatment plant flow	v (m3/d)	2,000 m3/d

R0704399 Version 1 Revision date: 2018-06-28 Page 46 of 124

Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.020168
	Risk from environmental exposure is driven by marine
	water.
	371,867.6
Maximum amount of safe use	kg/d
Risk from environmental exposure is driven by marine water.	

Contributing exposure scenario		
PROC7: Industrial spraying		
Use descriptors covered	Use domain: industrial	
Operational conditions		
	Sodium dodecyl sulphate	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.18 Pa	
	20 °C	
Process temperature		
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures	1	
Wear suitable respiratory protection.	Effectiveness: 95 %	
Wear chemically resistant gloves in		
combination with intensive	Effectiveness: 99 %	
management supervision control.		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
-	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified	
Assessment method	version, ECETOC TRA modified version: Use of gloves	
	has been considered additionally.	
	Worker - dermal, long-term - systemic	
Exposure estimate	0.4286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000106	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	60 mg/m³	
Risk Characterization Ratio (RCR)	0.210526	
Guidance to Downstream Users		

For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)

Contributing exposure scenario

R0704399 Version 1 Revision date: 2018-06-28 Page 47 of 124

Use descriptors covered	PROC7: Industrial spraying Use domain: industrial
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 95 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.4286 mg/kg bw/day
Risk Characterization Ratio (RCR) Assessment method	0.000106
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic
Evnosura astimata	5 mg/m ³
Exposure estimate Risk Characterization Ratio (RCR)	0.017544
, ,	0.017344
Guidance to Downstream Users For scaling see: http://www.ecetoc.org exposure estimates)	/tra Please note that a modified version has been used (see

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities
	Use domain: professional
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid

R0704399 Version 1 Revision date: 2018-06-28 Page 48 of 124

Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to i	ts source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
Evaceure estimate	Worker - dermal, long-term - systemic
Exposure estimate Risk Characterization Ratio (RCR)	0.1371 mg/kg bw/day 0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
Assessment method	Worker - inhalation, long-term - systemic
Exposure estimate	180 mg/m ³
Risk Characterization Ratio (RCR)	0.631579
Guidance to Downstream Users	0.001070
	ra Please note that a modified version has been used (see
exposure estimates)	Ta Filodoo filoto tilat a filodilioa voi sion filos booti doca (soc

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	

R0704399 Version 1 Revision date: 2018-06-28 Page 49 of 124

Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	30 mg/m³
Risk Characterization Ratio (RCR)	0.105263
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org	/tra Please note that a modified version has been used (see
exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: industrial
Operational conditions	1
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source

R0704399 Version 1 Revision date: 2018-06-28 Page 50 of 124

Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves
A33633MCHT MCtriod	has been considered additionally.
	rias been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	36 mg/m³
Risk Characterization Ratio (RCR)	0.126316
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	

exposure estimates)

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: industrial
Operational conditions	1
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	15 mg/m³

R0704399 Revision date: 2018-06-28 Page 51 of 124 Version 1

Risk Characterization Ratio (RCR) 0.052632	
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	
exposure estimates)	

Contributing exposure scenario	
Contributing expectation decidants	PROC10: Roller application or brushing
Use descriptors covered	Use domain: industrial
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	0.18 Pa
during use	
Draces temperature	20 °C
Process temperature	
Duration and Frequency of activity	480 min 5 days per week
, , ,	
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
•	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000068
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m³
Risk Characterization Ratio (RCR)	0.421053
Guidance to Downstream Users	1
	/tra Please note that a modified version has been used (see
exposure estimates)	
'	

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: professional
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %

R0704399 Version 1 Revision date: 2018-06-28 Page 52 of 124

Physical state	liquid
Vapour pressure of the substance	0.18 Pa
during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Risk Management Measures	
Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000068
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	210 mg/m³
Risk Characterization Ratio (RCR)	0.736842
Guidance to Downstream Users	

Use descriptors covered	Use domain: industrial
Operational conditions	L
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	•

Effectiveness: 99 %

For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see

exposure estimates)

Contributing exposure scenario

Wear chemically resistant gloves in

management supervision control.

combination with intensive

R0704399 Version 1 Revision date: 2018-06-28 Page 53 of 124

Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000068
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10 mg/m³
Risk Characterization Ratio (RCR)	0.035088
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	
exposure estimates)	

Contributing exposure scenario	
	PROC10: Roller application or brushing
Use descriptors covered	Use domain: professional
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Risk Management Measures	
Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic

R0704399 Version 1 Revision date: 2018-06-28 Page 54 of 124

Exposure estimate	0.2743 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000068	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	7 mg/m³	
Risk Characterization Ratio (RCR)	0.024561	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see		
exposure estimates)		

Contributing exposure scenario	
	PROC11: Non industrial spraying
Use descriptors covered	Use domain: professional
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 95 %
Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	1.0714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000264
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m³
Risk Characterization Ratio (RCR)	0.210526
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org	/tra Please note that a modified version has been used (see
exposure estimates)	·

R0704399 Version 1 Revision date: 2018-06-28 Page 55 of 124

Contributing exposure scenario	
	PROC11: Non industrial spraying
Use descriptors covered	Use domain: professional
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 95 %
Wear chemically resistant gloves in combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic
Exposure estimate	1.0714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000264
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10 mg/m³
Risk Characterization Ratio (RCR)	0.035088
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org exposure estimates)	/tra Please note that a modified version has been used (see

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	liquid

R0704399 Version 1 Revision date: 2018-06-28 Page 56 of 124

Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m³
Risk Characterization Ratio (RCR)	0.421053
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org exposure estimates)	/tra Please note that a modified version has been used (see

Contributing exposure scenario		
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %	
Avoid skin contact.		

R0704399 Version 1 Revision date: 2018-06-28 Page 57 of 124

Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m³
Risk Characterization Ratio (RCR)	0.421053
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	
exposure estimates)	

Contributing exposure scenario	T
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
Operational conditions	
- Срогинения солинисто	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	o its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker

R0704399 Version 1 Revision date: 2018-06-28 Page 58 of 124

	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m³	
Risk Characterization Ratio (RCR)	0.017544	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see		
exposure estimates)		

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring.
	Use domain: professional
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0.017544
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra Please note that a modified version has been used (see
exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelettisation. Use domain: industrial

R0704399 Version 1 Revision date: 2018-06-28 Page 59 of 124

Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	•
Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.00008
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m³
Risk Characterization Ratio (RCR)	0.210526
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org	/tra Please note that a modified version has been used (see
exposure estimates)	

Contributing exposure scenario		
Use descriptors covered	PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelettisation. Use domain: industrial	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %	
Physical state	Solid, high dustiness	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	

R0704399 Version 1 Revision date: 2018-06-28 Page 60 of 124

Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.00008
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10 mg/m³
Risk Characterization Ratio (RCR)	0.035088
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org	/tra Please note that a modified version has been used (see
exposure estimates)	

* * * * * * * * * * * * * * * *

4. Short title of exposure scenario

End use (industrial, professional)

SU3; ERC8a; PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19

Control of exposure and risk management measures

Contributing exposure scenario		
Use descriptors covered	AISE SPERC 8a.1.b.v2: AISE SPERC 8a.1.b.v2	
Operational conditions		
Annual amount used in the EU	3,500,000 kg	
Minimum emission days per year	365	
Emission factor air	0 %	
Emission factor water	100 %	
Emission factor soil	0 %	
Receive Surf. Water (Flow Rate).	18,000 m3/d	

R0704399 Version 1 Revision date: 2018-06-28 Page 61 of 124

Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures		
Type of STP	e of STP Municipal STP	
Assumed sewage treatment plant flow (m3/d)		2,000 m3/d
Exposure estimate and reference to its source		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment	
Risk Characterization Ratio (RCR)	0.023706	
	Risk from environmental exposure is driven by marine	
	water.	
	30.3 kg/d	
Maximum amount of safe use		
Risk from environmental exposure is	driven by marine water.	

Contributing exposure scenario		
	COLIPA SPERC	8a.1.a.v1: COLIPA SPERC 8a.1.a.v1
Use descriptors covered		
Operational conditions		
Annual amount used in the EU	3,500,000 kg	
Minimum emission days per year	365	
Emission factor air	0 %	
Emission factor water	100 %	
Emission factor soil	0 %	
Receive Surf. Water (Flow Rate).	18,000 m3/d	
Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures		
Type of STP	Municipal STP	
Assumed sewage treatment plant flow	(m3/d)	2,000 m3/d
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v3.6, ECETOC	TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.023706	
	Risk from environmental exwater.	xposure is driven by marine
Maximum amount of safe use	30.3 kg/d	
Risk from environmental exposure is di	iven by marine water.	

Contributing exposure scenario

R0704399 Version 1 Revision date: 2018-06-28 Page 62 of 124

Use descriptors covered	EFCC SPERC 8A.1a.v1: EFCC SPERC 8A.1a.v1	
Operational conditions		
Annual amount used in the EU	3,500,000 kg	
Minimum emission days per year	365	
Emission factor air	98 %	
Emission factor water	1 %	
Emission factor soil	0 %	
Receive Surf. Water (Flow Rate).	18,000 m3/d	
Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures		
Type of STP		Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to i	ts source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment	
Risk Characterization Ratio (RCR)	0.020263	
	Risk from environmental ex	cposure is driven by marine
	water.	
Maximum amount of safe use	94.6 kg/d	
Risk from environmental exposure is dri	ven by marine water.	

Contributing exposure scenario		
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. Use domain: professional	
Operational conditions	_ I	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		

R0704399 Version 1 Revision date: 2018-06-28 Page 63 of 124

Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	0.0343 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000008	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	0.12 mg/m³	
Risk Characterization Ratio (RCR)	0.000421	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario		
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. Use domain: professional	
Operational conditions		
	Sodium dodecyl sulphate	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, high dustiness	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	0.0343 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000008	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	0.1 mg/m³	
Risk Characterization Ratio (RCR)	0.000351	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: professional

R0704399 Version 1 Revision date: 2018-06-28 Page 64 of 124

Operational conditions		
	Sodium dodecyl sulphate	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	1.3714 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000338	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	60 mg/m³	
Risk Characterization Ratio (RCR)	0.210526	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: professional
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate
	Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	•
Avoid skin contact.	

R0704399 Version 1 Revision date: 2018-06-28 Page 65 of 124

The second of the second of the second of the second	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000338
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0.017544
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. Use domain: professional
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000017
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker

R0704399 Version 1 Revision date: 2018-06-28 Page 66 of 124

	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m³
Risk Characterization Ratio (RCR)	0.421053
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	
exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. Use domain: professional
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000017
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	50 mg/m³
Risk Characterization Ratio (RCR)	0.175439
Guidance to Downstream Users	
	/tra Please note that a modified version has been used (see
exposure estimates)	

Contributing exposure scenario

R0704399 Version 1 Revision date: 2018-06-28 Page 67 of 124

	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at
Use descriptors covered non-	dedicated facilities Use domain: professional
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	50 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally., The duration of activity has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000004
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	31.25 mg/m³
Risk Characterization Ratio (RCR)	0.109649
Guidance to Downstream Users For scaling see: http://www.ecetoc.org exposure estimates)	/tra Please note that a modified version has been used (see

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: professional
Operational conditions	

R0704399 Version 1 Revision date: 2018-06-28 Page 68 of 124

	Codium dodooul outphoto
Occupation Constitution of Lateral	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance	0.18 Pa
during use	
Process temperature	20 °C
Duration and Frequency of activity	50 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	o its source
•	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
	version, ECETOC TRA modified version: Use of gloves has
Assessment method	been considered additionally., The duration of activity has
	been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000004
, ,	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, The duration of activity has been considered using
	a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	5.2083 mg/m³
Risk Characterization Ratio (RCR)	0.018275
Guidance to Downstream Users	0.010270
	g/tra Please note that a modified version has been used (see
exposure estimates)	y
onpoduro dollinatod)	

Contributing exposure scenario		
Use descriptors covered	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: professional	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	

R0704399 Version 1 Revision date: 2018-06-28 Page 69 of 124

Duration and Frequency of activity	40 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures	•	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %	
Avoid skin contact.		
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally., The duration of activity has been considered using a linear approach.	
	Worker - dermal, long-term - systemic	
Exposure estimate	0.0114 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000003	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.	
	Worker - inhalation, long-term - systemic	
Exposure estimate	10 mg/m³	
Risk Characterization Ratio (RCR)	0.035088	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org exposure estimates)	/tra Please note that a modified version has been used (see	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	40 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	

R0704399 Version 1 Revision date: 2018-06-28 Page 70 of 124

Llee eviteble ebensieelly registent		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified	
	version, ECETOC TRA modified version: Use of gloves has	
	been considered additionally., The duration of activity has	
	been considered using a linear approach.	
	Worker - dermal, long-term - systemic	
Exposure estimate	0.0114 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000003	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified	
	version, The duration of activity has been considered using	
	a linear approach.	
	Worker - inhalation, long-term - systemic	
Exposure estimate	4.1667 mg/m³	
Risk Characterization Ratio (RCR)	0.01462	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see		
exposure estimates)	·	

Contributing exposure scenario		
	PROC10: Roller application or brushing	
Use descriptors covered	Use domain: professional	
Operational conditions		
	Sodium dodecyl sulphate	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	120 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Wear chemically resistant gloves in		
combination with intensive	Effectiveness: 99 %	
management supervision control.		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified	
	version, ECETOC TRA modified version: Use of gloves has	
	been considered additionally., The duration of activity has	
	been considered using a linear approach.	

R0704399 Version 1 Revision date: 2018-06-28 Page 71 of 124

	Worker - dermal, long-term - systemic	
Exposure estimate	0.0686 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000017	
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified	
Assessment method	version, The duration of activity has been considered using	
	a linear approach.	
	Worker - inhalation, long-term - systemic	
Exposure estimate	75 mg/m³	
Risk Characterization Ratio (RCR)	0.263158	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see		

exposure estimates)

Contributing exposure scenario		
	PROC10: Roller application or brushing	
Use descriptors covered	Use domain: professional	
Operational conditions		
	Sodium dodecyl sulphate	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Outdoor	
Risk Management Measures		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	27.4286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.006756	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	210 mg/m³	
Risk Characterization Ratio (RCR)	0.736842	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: professional

Page 72 of 124 R0704399 Revision date: 2018-06-28 Version 1

Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	120 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally., The duration of activity has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000017
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	2.5 mg/m³
Risk Characterization Ratio (RCR)	0.008772
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org exposure estimates)	g/tra Please note that a modified version has been used (see

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: professional
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa

R0704399 Version 1 Revision date: 2018-06-28 Page 73 of 124

Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Outdoor	
Risk Management Measures		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	27.4286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.006756	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	7 mg/m³	
Risk Characterization Ratio (RCR)	0.024561	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario	
	PROC11: Non industrial spraying
Use descriptors covered	Use domain: professional
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	0.18 Pa
during use	
Process temperature	20 °C
riocess temperature	
Duration and Frequency of activity	40 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	

R0704399 Version 1 Revision date: 2018-06-28 Page 74 of 124

Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally., The duration of activity has
	been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0893 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000022
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, The duration of activity has been considered using
	a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	100 mg/m³
Risk Characterization Ratio (RCR)	0.350877
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	
exposure estimates)	

Contributing exposure scenario	
Continuating exposure sections	PROC11: Non industrial spraying
Use descriptors covered	Use domain: professional
·	'
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 90 %
Provide a good standard of general	
ventilation (not less than 3 - 5 air	Effectiveness: 30 %
changes per hour)	
Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	1.0714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000264

R0704399 Version 1 Revision date: 2018-06-28 Page 75 of 124

Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	84 mg/m³	
Risk Characterization Ratio (RCR)	0.294737	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see		
exposure estimates)		

Contributing exposure scenario	
<u> </u>	PROC11: Non industrial spraying
Use descriptors covered	Use domain: professional
Operational conditions	
,	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	40 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally., The duration of activity has been considered using a linear approach. Worker - dermal, long-term - systemic
Exposure estimate	0.0893 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000022
NISK GHALACIEHZALIUH KALIU (KCK)	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, The duration of activity has been considered using
Assessment method	a linear approach.
	Worker - inhalation, long-term - systemic
Exposure estimate	16.6667 mg/m ³
Risk Characterization Ratio (RCR)	0.05848
Guidance to Downstream Users	0.000+0
	/tra Please note that a modified version has been used (see

Contributing exposure scenario

R0704399 Version 1 Revision date: 2018-06-28 Page 76 of 124

	PROC11: Non industrial spraying
Use descriptors covered	Use domain: professional
Operational conditions	<u> </u>
-	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 90 %
Provide a good standard of general	
ventilation (not less than 3 - 5 air	Effectiveness: 30 %
changes per hour)	
Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	1.0714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000264
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	14 mg/m³
Risk Characterization Ratio (RCR)	0.049123
Guidance to Downstream Users	
	tra Please note that a modified version has been used (see
exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid

R0704399 Version 1 Revision date: 2018-06-28 Page 77 of 124

Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	•
Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control. Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m³
Risk Characterization Ratio (RCR)	0.421053
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	tra Please note that a modified version has been used (see
exposure estimates)	,

Contributing exposure scenario		
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %	
Physical state	Solid, high dustiness	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %	
Avoid skin contact.		

R0704399 Version 1 Revision date: 2018-06-28 Page 78 of 124

Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0.017544
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	tra Please note that a modified version has been used (see
exposure estimates)	

Contributing exposure scenario	
	PROC15: Use a laboratory reagent.
Use descriptors covered	Use domain: professional
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	

R0704399 Version 1 Revision date: 2018-06-28 Page 79 of 124

Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	o its source
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.0034 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000001
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m³
Risk Characterization Ratio (RCR)	0.210526
Guidance to Downstream Users	•
For scaling see: http://www.ecetoc.org	g/tra Please note that a modified version has been used (see

Contributing exposure scenario		
	PROC15: Use a laboratory reagent.	
Use descriptors covered	Use domain: professional	
Operational conditions	,	
	Sodium dodecyl sulphate	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, high dustiness	
	0.18 Pa	
Vapour pressure of the substance during use	0.16 Pa	
during use	20 °C	
Process temperature	20 0	
Duration and Fraguency of activity	480 min 5 days per week	
Duration and Frequency of activity		
Indoor/Outdoor	Indoor	
Risk Management Measures		
Wear chemically resistant gloves in		
combination with intensive	Effectiveness: 99 %	
management supervision control.		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified	
Assessment method	version, ECETOC TRA modified version: Use of gloves	
	has been considered additionally.	
	Worker - dermal, long-term - systemic	
Exposure estimate	0.0034 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000001	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m³	
Risk Characterization Ratio (RCR)	0.017544	

Guidance to Downstream Users

For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)

Contributing exposure scenario		
Use descriptors covered	PROC19: Hand-mixing with intimate contact and only PPE available. Use domain: professional	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %	
Avoid skin contact.		
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	141.4286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.034835	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	210 mg/m³	
Risk Characterization Ratio (RCR)	0.736842	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario	
Use descriptors covered	PROC19: Hand-mixing with intimate contact and only PPE available. Use domain: professional
Operational conditions	<u>'</u>
-	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness

R0704399 Version 1 Revision date: 2018-06-28 Page 81 of 124

Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general	
ventilation (not less than 3 - 5 air	Effectiveness: 30 %
changes per hour)	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	141.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.034835
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	35 mg/m³
Risk Characterization Ratio (RCR)	0.122807
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	tra

* * * * * * * * * * * * * * * *

5. Short title of exposure scenario

End use (industrial, professional) SU22; ERC8b; PROC1, PROC8b

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	AISE SPERC 8a.1.a.v1: AISE SPERC 8a.1.a.v1
Operational conditions	
Annual amount used in the EU	3,500,000 kg
Minimum emission days per year	365
Emission factor air	0 %
Emission factor water	100 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m3/d

R0704399 Version 1 Revision date: 2018-06-28 Page 82 of 124

Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures		
Type of STP		Municipal STP
Assumed sewage treatment plant flow (m3/d)		2,000 m3/d
Exposure estimate and reference to its source		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment	
Risk Characterization Ratio (RCR)	0.023706	
	Risk from environmental exwater.	xposure is driven by marine
Maximum amount of safe use	30.3 kg/d	
Risk from environmental exposure is driven by marine water.		

	PROC1: Use in closed process, no likelihood of exposure.	
Use descriptors covered	Use domain: professional	
Operational conditions	<u> </u>	
	Sodium dodecyl sulphate	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance	0.18 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to	o its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	0.0343 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000008	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	0.12 mg/m³	
D: 1 OL	0.000421	
Risk Characterization Ratio (RCR)	0.000421	

R0704399 Version 1 Revision date: 2018-06-28 Page 83 of 124

Contributing exposure scenario		
	PROC1: Use in closed process, no likelihood of exposure.	
Use descriptors covered	Use domain: professional	
Operational conditions		
	Sodium dodecyl sulphate	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, high dustiness	
Vapour pressure of the substance	0.18 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	0.0343 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000008	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	0.1 mg/m³	
	0.000054	
Risk Characterization Ratio (RCR)	0.000351	

For scaling see: http://www.ecetoc.org/tra

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

R0704399 Version 1 Revision date: 2018-06-28 Page 84 of 124

Risk Management Measures	
Provide a good standard of general	
ventilation (not less than 3 - 5 air	Effectiveness: 30 %
changes per hour)	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	84 mg/m³
Risk Characterization Ratio (RCR)	0.294737
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	tra

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker

R0704399 Version 1 Revision date: 2018-06-28 Page 85 of 124

	Worker - dermal, long-term - systemic	
Exposure estimate	13.7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.003378	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	35 mg/m³	
Risk Characterization Ratio (RCR)	0.122807	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

* * * * * * * * * * * * * * * *

6. Short title of exposure scenario

End use (industrial, professional)

SU19; ERC8c; PROC1, PROC2, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13, PROC14

Control of exposure and risk management measures

Contributing exposure scenario		
Use descriptors covered	EFCC SPERC 8C.1a.v1	: EFCC SPERC 8C.1a.v1
Operational conditions	-1	
Annual amount used in the EU	3,500,000 kg	
Minimum emission days per year	365	
Emission factor air	0 %	
Emission factor water	1 %	
Emission factor soil	0 %	
Receive Surf. Water (Flow Rate).	18,000 m3/d	
Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures		
Type of STP		Municipal STP
Assumed sewage treatment plant flow	(m3/d)	2,000 m3/d
Exposure estimate and reference to		
Assessment method		OC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.020263	
	Risk from environmenta water.	I exposure is driven by marine
Maximum amount of safe use	94.6 kg/d	
Risk from environmental exposure is d	Iriven by marine water.	

Continuum g expectate contains	Contributing exposure scenario	
--------------------------------	--------------------------------	--

R0704399 Version 1 Revision date: 2018-06-28 Page 86 of 124

Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. Use domain: industrial	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	0.0343 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.00008	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	0.12 mg/m³	
Risk Characterization Ratio (RCR)	0.000421	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org	/tra	

Contributing exposure scenario	
Use descriptors covered	PROC1: Use in closed process, no likelihood of exposure. Use domain: industrial
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
BL : I	
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	

R0704399 Version 1 Revision date: 2018-06-28 Page 87 of 124

Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.00008
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.01 mg/m³
Risk Characterization Ratio (RCR)	0.000035
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	tra

Contributing exposure scenario	
Han danawintana anyawa d	PROC2: Use in closed, continuous process with
Use descriptors covered	occasional controlled exposure.
	Use domain: industrial
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1.3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000338
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	12 mg/m³
Risk Characterization Ratio (RCR)	0.042105
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org	g/tra

R0704399 Version 1 Revision date: 2018-06-28 Page 88 of 124

Contributing exposure scenario		
Use descriptors covered	PROC2: Use in closed, continuous process with occasional controlled exposure. Use domain: industrial	
Operational conditions	1	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %	
Physical state	Solid, high dustiness	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	1.3714 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000338	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	1 mg/m³	
Risk Characterization Ratio (RCR)	0.003509	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	/tra	

Contributing exposure scenario		
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. Use domain: industrial	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	

R0704399 Version 1 Revision date: 2018-06-28 Page 89 of 124

Indoor/Outdoor	Indoor	
Risk Management Measures		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	6.8571 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.001689	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	60 mg/m³	
Risk Characterization Ratio (RCR)	0.210526	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises. Use domain: industrial
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6.8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.001689
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	25 mg/m³
Risk Characterization Ratio (RCR)	0.087719

R0704399 Version 1 Revision date: 2018-06-28 Page 90 of 124

Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra

Contributing exposure scenario	
PROC7: Industrial spraying Use domain: industrial	
Ose domain: industrial	
Sodium dodecyl sulphate	
Content: >= 0 % - <= 100 %	
liquid	
0.18 Pa	
20 °C	
480 min 5 days per week	
Indoor	
Effectiveness: 95 %	
o its source	
EASY TRA v3.6, ECETOC TRA v3.0, Worker	
Worker - dermal, long-term - systemic	
42.8571 mg/kg bw/day	
0.010556	
EASY TRA v3.6, ECETOC TRA v3.0, Worker	
Worker - inhalation, long-term - systemic	
60 mg/m³	
0.210526	
g/tra	

Contributing exposure scenario		
Use descriptors covered	PROC7: Industrial spraying Use domain: industrial	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %	
Physical state	Solid, high dustiness	
Vapour pressure of the substance during use	0.18 Pa	

R0704399 Version 1 Revision date: 2018-06-28 Page 91 of 124

Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Local exhaust ventilation	Effectiveness: 95 %	
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	42.8571 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.010556	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	5 mg/m³	
Risk Characterization Ratio (RCR)	0.017544	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario	
3 • 1 • • • • • • • • • • • • • • • • • • •	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at
Use descriptors covered non-	dedicated facilities
osc descriptors severed non	Use domain: industrial
Operational conditions	
•	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker

R0704399 Version 1 Revision date: 2018-06-28 Page 92 of 124

	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m³
Risk Characterization Ratio (RCR)	0.421053
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	50 mg/m³
Risk Characterization Ratio (RCR)	0.175439
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	tra

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: industrial

R0704399 Version 1 Revision date: 2018-06-28 Page 93 of 124

Operational conditions	Operational conditions	
	Sodium dodecyl sulphate	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance	0.18 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13.7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.003378	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	60 mg/m³	
Risk Characterization Ratio (RCR)	0.210526	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	

R0704399 Version 1 Revision date: 2018-06-28 Page 94 of 124

Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	25 mg/m³
Risk Characterization Ratio (RCR)	0.087719
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
	PROC10: Roller application or brushing
Use descriptors covered	Use domain: industrial
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	o its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	27.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.006756
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m³
Risk Characterization Ratio (RCR)	0.421053
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org	g/tra

Contributing exposure scenario	
Contributing exposure scenario	

R0704399 Version 1 Revision date: 2018-06-28 Page 95 of 124

Use descriptors covered	PROC10: Roller application or brushing Use domain: industrial	
-		
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %	
Physical state	Solid, high dustiness	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	27.4286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.006756	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	10 mg/m³	
Risk Characterization Ratio (RCR)	0.035088	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

Contributing exposure scenario		
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance	0.18 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Avoid skin contact.		

R0704399 Version 1 Revision date: 2018-06-28 Page 96 of 124

Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13.7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.003378	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	120 mg/m³	
Risk Characterization Ratio (RCR)	0.421053	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

PROC13: Treatment of articles by domain: industrial Operational conditions	Contributing exposure scenario			
Concentration of the substance Sodium dodecyl sulphate Content: >= 0 % - <= 100 % Physical state Solid, high dustiness Vapour pressure of the substance during use Process temperature Duration and Frequency of activity Indoor/Outdoor Risk Management Measures Avoid skin contact. Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic Exposure estimate 13.7143 mg/kg bw/day Risk Characterization Ratio (RCR) Exposure estimate BASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate Exposure estimate Somym³ Risk Characterization Ratio (RCR) O.0017544	•	dipping and pouring. Use descriptors covered Use		
Concentration of the substance Content: >= 0 % - <= 100 % Physical state Solid, high dustiness 0.18 Pa 0.18 Pa Process temperature Process temperature Duration and Frequency of activity Indoor/Outdoor Indoor Risk Management Measures Avoid skin contact. Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic Exposure estimate 13.7143 mg/kg bw/day Risk Characterization Ratio (RCR) Worker - inhalation, long-term - systemic Exposure estimate Exposure estimate 5 mg/m³ Risk Characterization Ratio (RCR) 0.0017544	Operational conditions			
Physical state Vapour pressure of the substance during use Process temperature Duration and Frequency of activity Indoor/Outdoor Risk Management Measures Avoid skin contact. Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic Exposure estimate 13.7143 mg/kg bw/day Risk Characterization Ratio (RCR) Noure - inhalation, long-term - systemic Exposure estimate Exposure estimate Smg/m³ Risk Characterization Ratio (RCR) O.0017544				
Vapour pressure of the substance during use Process temperature 20 °C Duration and Frequency of activity Indoor/Outdoor Risk Management Measures Avoid skin contact. Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic Exposure estimate 13.7143 mg/kg bw/day Risk Characterization Ratio (RCR) 0.003378 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate Exposure estimate 5 mg/m³ Risk Characterization Ratio (RCR) 0.017544	Concentration of the substance	Content: >= 0 % - <= 100 %		
during use Process temperature 20 °C Duration and Frequency of activity Indoor/Outdoor Risk Management Measures Avoid skin contact. Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic Exposure estimate 13.7143 mg/kg bw/day Risk Characterization Ratio (RCR) 0.003378 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 5 mg/m³ Risk Characterization Ratio (RCR) 0.017544	Physical state	Solid, high dustiness		
Duration and Frequency of activity Indoor/Outdoor Risk Management Measures Avoid skin contact. Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic Exposure estimate 13.7143 mg/kg bw/day Risk Characterization Ratio (RCR) Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 5 mg/m³ Risk Characterization Ratio (RCR) 0.0017544		0.18 Pa		
Indoor/Outdoor Indoor Risk Management Measures Avoid skin contact. Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic Exposure estimate 13.7143 mg/kg bw/day Risk Characterization Ratio (RCR) 0.003378 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 5 mg/m³ Risk Characterization Ratio (RCR) 0.017544	Process temperature	20 °C		
Risk Management Measures Avoid skin contact. Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic Exposure estimate 13.7143 mg/kg bw/day Risk Characterization Ratio (RCR) 0.003378 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 5 mg/m³ Risk Characterization Ratio (RCR) 0.017544	Duration and Frequency of activity	480 min 5 days per week		
Avoid skin contact. Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic Exposure estimate 13.7143 mg/kg bw/day Risk Characterization Ratio (RCR) 0.003378 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 5 mg/m³ Risk Characterization Ratio (RCR) 0.017544	Indoor/Outdoor	Indoor		
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic Exposure estimate 13.7143 mg/kg bw/day Risk Characterization Ratio (RCR) 0.003378 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 5 mg/m³ Risk Characterization Ratio (RCR) 0.017544	Risk Management Measures			
gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic Exposure estimate 13.7143 mg/kg bw/day Risk Characterization Ratio (RCR) 0.003378 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 5 mg/m³ Risk Characterization Ratio (RCR) 0.017544				
prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic Exposure estimate 13.7143 mg/kg bw/day Risk Characterization Ratio (RCR) 0.003378 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 5 mg/m³ Risk Characterization Ratio (RCR) 0.017544				
Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic Exposure estimate 13.7143 mg/kg bw/day Risk Characterization Ratio (RCR) Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 5 mg/m³ Risk Characterization Ratio (RCR) 0.017544	gloves., Wear suitable coveralls to			
Use suitable eye protection. Exposure estimate and reference to its source Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic Exposure estimate 13.7143 mg/kg bw/day Risk Characterization Ratio (RCR) 0.003378 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 5 mg/m³ Risk Characterization Ratio (RCR) 0.017544	·			
Exposure estimate and reference to its source Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic Exposure estimate 13.7143 mg/kg bw/day Risk Characterization Ratio (RCR) 0.003378 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 5 mg/m³ Risk Characterization Ratio (RCR) 0.017544	•			
Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic Exposure estimate 13.7143 mg/kg bw/day Risk Characterization Ratio (RCR) Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 5 mg/m³ Risk Characterization Ratio (RCR) 0.017544				
Worker - dermal, long-term - systemic Exposure estimate 13.7143 mg/kg bw/day Risk Characterization Ratio (RCR) 0.003378 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 5 mg/m³ Risk Characterization Ratio (RCR) 0.017544	Exposure estimate and reference to	its source		
Exposure estimate 13.7143 mg/kg bw/day Risk Characterization Ratio (RCR) 0.003378 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 5 mg/m³ Risk Characterization Ratio (RCR) 0.017544	Assessment method			
Risk Characterization Ratio (RCR) Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 5 mg/m³ Risk Characterization Ratio (RCR) 0.017544		Worker - dermal, long-term - systemic		
Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 5 mg/m³ Risk Characterization Ratio (RCR) 0.017544	Exposure estimate	13.7143 mg/kg bw/day		
Worker - inhalation, long-term - systemic Exposure estimate 5 mg/m³ Risk Characterization Ratio (RCR) 0.017544	Risk Characterization Ratio (RCR)	0.003378		
Exposure estimate 5 mg/m³ Risk Characterization Ratio (RCR) 0.017544	Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker		
Risk Characterization Ratio (RCR) 0.017544		Worker - inhalation, long-term - systemic		
, , ,	Exposure estimate	· · · · · ·		
Guidance to Downstream Users	Risk Characterization Ratio (RCR)	0.017544		
	Guidance to Downstream Users			
For scaling see: http://www.ecetoc.org/tra	For scaling see: http://www.ecetoc.org	y/tra		

Contributing exposure scenario	

R0704399 Version 1 Revision date: 2018-06-28 Page 97 of 124

Use descriptors covered	PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelettisation. Use domain: industrial	
Operational conditions		
	Sodium dodecyl sulphate	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	3.4286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000844	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	60 mg/m³	
Risk Characterization Ratio (RCR)	0.210526	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org	/tra	

Contributing exposure scenario	
Use descriptors covered	PROC14: Production of preparations or articles by
	tabletting, compression, extrusion, pelettisation. Use domain: industrial
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	

R0704399 Version 1 Revision date: 2018-06-28 Page 98 of 124

Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	3.4286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000844	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	10 mg/m³	
Risk Characterization Ratio (RCR)	0.035088	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

* * * * * * * * * * * * * * * *

7. Short title of exposure scenario

End use (industrial, professional) SU3, SU19; ERC8d; PROC8a, PROC8b, PROC10, PROC11, PROC13

Control of exposure and risk management measures

Contributing exposure scenario			
Use descriptors covered	ECPA SPERC 8d	.2.v2	
Operational conditions			
Annual amount used in the EU	3,500,000 kg		
Minimum emission days per year	365		
Emission factor air	100 %		
Emission factor water	0 %		
Emission factor soil	0 %		
Receive Surf. Water (Flow Rate).	18,000 m3/d		
Dilution factor river	10		
Dilution factor coast	100		
Risk Management Measures	I		
Type of STP		Municipal STP	
Assumed sewage treatment plant flow (m3/d)		2,000 m3/d	
Exposure estimate and reference t	o its source		
Assessment method	EASY TRA v3.6, E	EASY TRA v3.6, ECETOC TRA v3.0, Environment	
Risk Characterization Ratio (RCR)	0.020168	0.020168	

R0704399 Version 1 Revision date: 2018-06-28 Page 99 of 124

	Risk from environmental exposure is driven by marine water.	
Maximum amount of safe use	95.1 kg/d	
Risk from environmental exposure is driven by marine water.		

Contributing exposure scenario			
Use descriptors covered	EFCC SPERC 8D.1a.v1: EFCC SPERC 8D.1a.v1		
Operational conditions			
Annual amount used in the EU	3,500,000 kg		
Minimum emission days per year	365		
Emission factor air	98 %	98 %	
Emission factor water	1 %	1 %	
Emission factor soil	0 %	0 %	
Receive Surf. Water (Flow Rate).	18,000 m3/d		
Dilution factor river	10		
Dilution factor coast	100		
Risk Management Measures			
Type of STP	Municipal STP		
Assumed sewage treatment plant flow	(m3/d)	2,000 m3/d	
Exposure estimate and reference to its source			
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment		
Risk Characterization Ratio (RCR)	0.020263		
	Risk from environmental exposure is driven by marine water.		
Maximum amount of safe use	94.6 kg/d		
Risk from environmental exposure is d	riven by marine water.		

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: professional
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	0.18 Pa
during use	

R0704399 Version 1 Revision date: 2018-06-28 Page 100 of 124

Process temperature	20 °C	
Duration and Frequency of activity	240 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %	
Avoid skin contact.		
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to its source		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.	
	Worker - dermal, long-term - systemic	
Exposure estimate	0.1371 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000034	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	180 mg/m³	
Risk Characterization Ratio (RCR)	0.631579	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org exposure estimates)	/tra Please note that a modified version has been used (see	

Contributing exposure scenario		
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: professional	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %	
Physical state	Solid, high dustiness	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	240 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %	
Avoid skin contact.		

R0704399 Version 1 Revision date: 2018-06-28 Page 101 of 124

Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	30 mg/m³
Risk Characterization Ratio (RCR)	0.105263
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/exposure estimates)	tra Please note that a modified version has been used (see

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or preparation
	(charging/discharging) from/to vessels/large containers at dedicated facilities
	Use domain: professional
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003378
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	84 mg/m³
Risk Characterization Ratio (RCR)	0.294737
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org	/tra

Contributing exposure scenario

R0704399 Version 1 Revision date: 2018-06-28 Page 102 of 124

Use descriptors covered	PROC10: Roller application or brushing Use domain: professional
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 90 %
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic
Exposure estimate	0.2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000068
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	30 mg/m³
Risk Characterization Ratio (RCR)	0.105263
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org exposure estimates)	/tra Please note that a modified version has been used (see

Contributing exposure scenario		
	PROC10: Roller application or brushing	
Use descriptors covered	Use domain: professional	
Operational conditions		
	Sodium dodecyl sulphate	
Concentration of the substance	Content: >= 0 % - <= 100 %	
Physical state	Solid, high dustiness	
Vapour pressure of the substance	0.18 Pa	
during use		

R0704399 Version 1 Revision date: 2018-06-28 Page 103 of 124

Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 90 %
Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000068
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1 mg/m³
Risk Characterization Ratio (RCR)	0.003509
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra Please note that a modified version has been used (see
exposure estimates)	

Contributing exposure scenario	
	PROC11: Non industrial spraying
Use descriptors covered	Use domain: professional
Operational conditions	
•	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	0.18 Pa
during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 95 %
Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	

R0704399 Version 1 Revision date: 2018-06-28 Page 104 of 124

Use suitable chemically resistant	
1	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	1.0714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000264
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m³
Risk Characterization Ratio (RCR)	0.210526
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	
exposure estimates)	

Contributing exposure scenario	
	PROC11: Non industrial spraying
Use descriptors covered	Use domain: professional
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance	0.18 Pa
during use	0.101 a
	20 °C
Process temperature	
Duration and Frequency of activity	480 min 5 days per week
Duration and Frequency of activity	
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 95 %
Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to it	
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	1.0714 mg/kg bw/day

R0704399 Version 1 Revision date: 2018-06-28 Page 105 of 124

Risk Characterization Ratio (RCR)	0.000264
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10 mg/m³
Risk Characterization Ratio (RCR)	0.035088
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	
exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
<u> </u>	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m³
Risk Characterization Ratio (RCR)	0.421053
Guidance to Downstream Users	
	/tra Please note that a modified version has been used (see
exposure estimates)	

Contributing	exposure	scenario

R0704399 Version 1 Revision date: 2018-06-28 Page 106 of 124

Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
Fun cours action ato	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR) Assessment method	0.000034 EASY TRA v3.6, ECETOC TRA v3.0, Worker
Assessment method	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m ³
Risk Characterization Ratio (RCR)	0.017544
Guidance to Downstream Users	0.017077
	/tra Please note that a modified version has been used (see
exposure estimates)	, ita i locato fioto triat a modifica version rias been asea (see

* * * * * * * * * * * * * * * *

8. Short title of exposure scenario

End use (industrial, professional)

SU19; ERC8f; PROC8a, PROC10, PROC11, PROC13

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	EFCC SPERC 8F.1a.v1: EFCC SPERC 8F.1a.v1
Operational conditions	

R0704399 Version 1 Revision date: 2018-06-28 Page 107 of 124

Annual amount used in the EU	3,500,000 kg	
Minimum emission days per year	365	
Emission factor air	0 %	
Emission factor water	1 %	
Emission factor soil	3.7 %	
Receive Surf. Water (Flow Rate).	18,000 m3/d	
Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures		
Type of STP		Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment	
Risk Characterization Ratio (RCR)	0.020263	
	Risk from environmental exposure is driven by marine	
	water.	
	94.6 kg/d	
Maximum amount of safe use		
Risk from environmental exposure is driven by marine water.		

Contributing exposure scenario		
Use descriptors covered	PROC8a: Transfer of substance or preparation (charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: professional	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	240 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %	
Avoid skin contact.		

R0704399 Version 1 Revision date: 2018-06-28 Page 108 of 124

ts source
EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
Worker - dermal, long-term - systemic
0.1371 mg/kg bw/day
0.000034
EASY TRA v3.6, ECETOC TRA v3.0, Worker
Worker - inhalation, long-term - systemic
180 mg/m³
0.631579
ra Please note that a modified version has been used (see

Contributing exposure scenario			
	PROC8a: Transfer of substance or preparation		
Use descriptors covered	(charging/discharging) from/to ves-sels/large containers at non-dedicated facilities Use domain: professional		
Operational conditions			
	Sodium dodecyl sulphate		
Concentration of the substance	Content: >= 0 % - <= 100 %		
Physical state	Solid, high dustiness		
Vapour pressure of the substance during use	0.18 Pa		
Process temperature	20 °C		
Duration and Frequency of activity	240 min 5 days per week		
Indoor/Outdoor	Indoor		
Risk Management Measures	Risk Management Measures		
Wear chemically resistant gloves in			
combination with intensive	Effectiveness: 99 %		
management supervision control.			
Avoid skin contact.			
Use suitable chemically resistant			
gloves., Wear suitable coveralls to			
prevent exposure to the skin.			
Avoid contact with eyes.			
Use suitable eye protection.			
Exposure estimate and reference to			
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves		
	has been considered additionally.		
	Worker - dermal, long-term - systemic		
	D0704000		

Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	30 mg/m³
Risk Characterization Ratio (RCR)	0.105263
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	
exposure estimates)	

Contributing exposure scenario	Contributing exposure scenario		
	PROC10: Roller application or brushing		
Use descriptors covered	Use domain: professional		
Operational conditions			
	Sodium dodecyl sulphate		
Concentration of the substance	Content: >= 0 % - <= 100 %		
Physical state	liquid		
Vapour pressure of the substance during use	0.18 Pa		
Process temperature	20 °C		
Duration and Frequency of activity	480 min 5 days per week		
Indoor/Outdoor	Outdoor		
Risk Management Measures			
Wear chemically resistant gloves in			
combination with intensive	Effectiveness: 99 %		
management supervision control.			
Avoid skin contact.			
Use suitable chemically resistant			
gloves., Wear suitable coveralls to			
prevent exposure to the skin.			
Avoid contact with eyes.			
Use suitable eye protection.			
Exposure estimate and reference to	its source		
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified		
Assessment method	version, ECETOC TRA modified version: Use of gloves		
	has been considered additionally.		
	Worker - dermal, long-term - systemic		
Exposure estimate	0.2743 mg/kg bw/day		
Risk Characterization Ratio (RCR)	0.000068		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker		
	Worker - inhalation, long-term - systemic		
Exposure estimate	210 mg/m³		
Risk Characterization Ratio (RCR)	0.736842		
Guidance to Downstream Users			
	y/tra Please note that a modified version has been used (see		
exposure estimates)			

Contributing	exposure	scenario
Continuation	CAPOSUIC	3CCHai iO

R0704399 Version 1 Revision date: 2018-06-28 Page 110 of 124

Use domain: professional Operational conditions Concentration of the substance Content: >= 0 % - <= 100 % Physical state Solid, high dustiness Vapour pressure of the substance during use Process temperature Duration and Frequency of activity Indoor/Outdoor Risk Management Measures Wear chemically resistant gloves in combination with intensive management supervision control. Avoid skin contact. Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate O.2743 mg/kg bw/day Risk Characterization Ratio (RCR) O.004561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	PROC10: Roller application or brushing		
Operational conditions Sodium dodecyl sulphate Concentration of the substance Solid, high dustiness Vapour pressure of the substance during use 0.18 Pa Process temperature 20 °C Duration and Frequency of activity 480 min 5 days per week Indoor/Outdoor Outdoor Risk Management Measures Wear chemically resistant gloves in combination with intensive management supervision control. Avoid skin contact. Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic 0.2743 mg/kg bw/day Exposure estimate 0.000068 Risk Characterization Ratio (RCR) EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Worker - inhalation, long-term - systemic Exposure estimate 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see <td>Use descriptors covered</td> <td>· · ·</td>	Use descriptors covered	· · ·	
Concentration of the substance Concentration of the substance Physical state Vapour pressure of the substance during use Process temperature Duration and Frequency of activity Indoor/Outdoor Risk Management Measures Wear chemically resistant gloves in combination with intensive management supervision control. Avoid skin contact. Use suitable chemically resistant gloves, Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA woidinally. Worker - dermal, long-term - systemic 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic 7 mg/m³ Risk Characterization Ratio (RCR)	·	'	
Concentration of the substance Physical state Vapour pressure of the substance during use Process temperature Duration and Frequency of activity Indoor/Outdoor Risk Management Measures Wear chemically resistant gloves in combination with intensive management supervision control. Avoid skin contact. Use suitable chemically resistant gloves. War suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA was of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate O.2743 mg/kg bw/day Risk Characterization Ratio (RCR) Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic 7 mg/m³ Risk Characterization Ratio (RCR) Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	Operational conditions	•	
Physical state Vapour pressure of the substance during use Process temperature 20 °C Duration and Frequency of activity Indoor/Outdoor Outdoor Risk Management Measures Wear chemically resistant gloves in combination with intensive management supervision control. Avoid skin contact. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic 7 mg/m³ Risk Characterization Ratio (RCR) Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see		Sodium dodecyl sulphate	
Vapour pressure of the substance during use Process temperature Duration and Frequency of activity Indoor/Outdoor Risk Management Measures Wear chemically resistant gloves in combination with intensive management supervision control. Avoid skin contact. Use suitable chemically resistant gloves in prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic Exposure estimate 1.2743 mg/kg bw/day Risk Characterization Ratio (RCR) Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic 7 mg/m³ Risk Characterization Ratio (RCR) Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	Concentration of the substance	Content: >= 0 % - <= 100 %	
Vapour pressure of the substance during use Process temperature Duration and Frequency of activity Indoor/Outdoor Risk Management Measures Wear chemically resistant gloves in combination with intensive management supervision control. Avoid skin contact. Use suitable chemically resistant gloves in prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - dermal, long-term - systemic Exposure estimate 1.2743 mg/kg bw/day Risk Characterization Ratio (RCR) Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic 7 mg/m³ Risk Characterization Ratio (RCR) Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see			
during use Process temperature Duration and Frequency of activity Indoor/Outdoor Risk Management Measures Wear chemically resistant gloves in combination with intensive management supervision control. Avoid skin contact. Use suitable chemically resistant gloves, wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see		-	
Process temperature Duration and Frequency of activity Indoor/Outdoor Risk Management Measures Wear chemically resistant gloves in combination with intensive management supervision control. Avoid skin contact. Use suitable chemically resistant gloves, Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version; ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see		0.18 Pa	
Duration and Frequency of activity Indoor/Outdoor Risk Management Measures Wear chemically resistant gloves in combination with intensive management supervision control. Avoid skin contact. Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) 0.000068 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	during use		
Duration and Frequency of activity Indoor/Outdoor Risk Management Measures Wear chemically resistant gloves in combination with intensive management supervision control. Avoid skin contact. Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) 0.000068 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	Process temperature	20 °C	
Indoor/Outdoor Outdoor Risk Management Measures Wear chemically resistant gloves in combination with intensive management supervision control. Avoid skin contact. Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source Assessment method EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) 0.00068 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	- Nosess temperature		
Indoor/Outdoor Risk Management Measures Wear chemically resistant gloves in combination with intensive management supervision control. Avoid skin contact. Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) Assessment method EXPOSURE estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) Worker - inhalation, long-term - systemic Exposure estimate 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	Duration and Frequency of activity	480 min 5 days per week	
Risk Management Measures Wear chemically resistant gloves in combination with intensive management supervision control. Effectiveness: 99 % Avoid skin contact. Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source Assessment method EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) 0.000068 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Worker - inhalation, long-term - systemic Exposure estimate 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	, ,	0.41	
Wear chemically resistant gloves in combination with intensive management supervision control. Avoid skin contact. Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source Assessment method EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) 0.000068 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker worker, modified version and the provided by the		Outdoor	
combination with intensive management supervision control. Avoid skin contact. Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source Assessment method EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) 0.000068 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see			
management supervision control. Avoid skin contact. Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	, ,	F# # 00.04	
Avoid skin contact. Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see		Effectiveness: 99 %	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see			
gloves., Wear suitable coveralls to prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) 0.000068 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see			
prevent exposure to the skin. Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 7 mg/m³ Risk Characterization Ratio (RCR) 0.0024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see			
Avoid contact with eyes. Use suitable eye protection. Exposure estimate and reference to its source EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see			
Use suitable eye protection. Exposure estimate and reference to its source EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	<u> </u>		
Exposure estimate and reference to its source EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) 0.000068 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	·		
Assessment method EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see			
Assessment method version, ECETOC TRA modified version: Use of gloves has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) 0.000068 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	Exposure estimate and reference to its source		
has been considered additionally. Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see			
Worker - dermal, long-term - systemic Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) 0.000068 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	Assessment method		
Exposure estimate 0.2743 mg/kg bw/day Risk Characterization Ratio (RCR) 0.000068 Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see		·	
Risk Characterization Ratio (RCR) Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see			
Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - systemic Exposure estimate 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	·	0.2743 mg/kg bw/day	
Worker - inhalation, long-term - systemic Exposure estimate 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	Risk Characterization Ratio (RCR)	0.000068	
Exposure estimate 7 mg/m³ Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	Assessment method	·	
Risk Characterization Ratio (RCR) 0.024561 Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see			
Guidance to Downstream Users For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	Exposure estimate	7 mg/m³	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	Risk Characterization Ratio (RCR)	0.024561	
	Guidance to Downstream Users		
	For scaling see: http://www.ecetoc.org/	tra Please note that a modified version has been used (see	
		,	

Contributing exposure scenario	
Use descriptors covered	PROC11: Non industrial spraying Use domain: professional
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C

R0704399 Version 1 Revision date: 2018-06-28 Page 111 of 124

Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear suitable respiratory protection.	Effectiveness: 95 %
Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to its source	
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	1.0714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000264
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	60 mg/m³
Risk Characterization Ratio (RCR)	0.210526
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	tra Please note that a modified version has been used (see
exposure estimates)	·

Contributing exposure scenario		
Use descriptors covered	PROC11: Non industrial spraying Use domain: professional	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %	
Physical state	Solid, high dustiness	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Wear suitable respiratory protection.	Effectiveness: 95 %	
Wear chemically resistant gloves in combination with intensive management supervision control.	Effectiveness: 99 %	

R0704399 Version 1 Revision date: 2018-06-28 Page 112 of 124

Avoid skin contact.		
Use suitable chemically resistant		
gloves., Wear suitable coveralls to		
prevent exposure to the skin.		
Avoid contact with eyes.		
Use suitable eye protection.		
Exposure estimate and reference to its source		
	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified	
Assessment method	version, ECETOC TRA modified version: Use of gloves	
	has been considered additionally.	
	Worker - dermal, long-term - systemic	
Exposure estimate	1.0714 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000264	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	10 mg/m³	
Risk Characterization Ratio (RCR)	0.035088	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see		
exposure estimates)		

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in	Effectiveness: 99 %
combination with intensive management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant gloves., Wear suitable coveralls to prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified version, ECETOC TRA modified version: Use of gloves has been considered additionally.
	Worker - dermal, long-term - systemic

R0704399 Version 1 Revision date: 2018-06-28 Page 113 of 124

Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	120 mg/m³
Risk Characterization Ratio (RCR)	0.421053
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see	
exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
Operational conditions	
	Sodium dodecyl sulphate
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	Solid, high dustiness
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in	
combination with intensive	Effectiveness: 99 %
management supervision control.	
Avoid skin contact.	
Use suitable chemically resistant	
gloves., Wear suitable coveralls to	
prevent exposure to the skin.	
Avoid contact with eyes.	
Use suitable eye protection.	
Exposure estimate and reference to	its source
•	EASY TRA v3.6, ECETOC TRA v3.0, worker, modified
Assessment method	version, ECETOC TRA modified version: Use of gloves
	has been considered additionally.
	Worker - dermal, long-term - systemic
Exposure estimate	0.1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000034
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Worker
-	Worker - inhalation, long-term - systemic
Exposure estimate	5 mg/m³
Risk Characterization Ratio (RCR)	0.017544
Guidance to Downstream Users	
	/tra Please note that a modified version has been used (see
exposure estimates)	y tra i loade flote that a filodilied version had been used (see

R0704399 Version 1 Revision date: 2018-06-28 Page 114 of 124

* * * * * * * * * * * * * * * *

9. Short title of exposure scenario

Service life of articles SU19; ERC10a; AC13

Control of exposure and risk management measures

Control of exposure and risk manage Contributing exposure scenario		
Use descriptors covered	ERC10a: Wide dispersive outdoor use of long-life articles and materials with low release	
Operational conditions		
Annual amount used in the EU	3,500,000 kg	
Minimum emission days per year	365	
Emission factor air	0.05 %	
Emission factor water	3.2 %	
Emission factor soil	3.2 %	
Receive Surf. Water (Flow Rate).	18,000 m3/d	
Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures		
Type of STP	Municipal STP	
Assumed sewage treatment plant flow	(m3/d) 2,000 m3/d	
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment	
Risk Characterization Ratio (RCR)	0.02047	
	Risk from environmental exposure is driven by marine water.	
Maximum amount of safe use	93.7 kg/d	
Risk from environmental exposure is d	riven by marine water.	

Contributing exposure scenario	
Use descriptors covered	AC13: Plastic articles
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C

R0704399 Version 1 Revision date: 2018-06-28 Page 115 of 124

Duration and Frequency of activity	Exposure duration: 8 min 12 uses per year
Room size	20 m3
Ventilation rate per hour	0.6
Exposed skin area	Half body surface (8750 cm²)
Uptake fraction dermal	100 %
	Amount per use 8,000 g Relevant for inhalative exposure
	estimates
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	0.9589 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000393
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	4.5347 mg/m³
Risk Characterization Ratio (RCR)	0.05335
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org	ı/tra

* * * * * * * * * * * * * * *

10. Short title of exposure scenario

Service life of articles SU19; ERC11a; AC13

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC11a: Wide dispersive indoor use of long-life articles and materials with low release
Operational conditions	
Annual amount used in the EU	3,500,000 kg
Minimum emission days per year	365
Emission factor air	0.05 %
Emission factor water	0.05 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18,000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow	w (m3/d) 2,000 m3/d
Exposure estimate and reference t	to its source

R0704399 Version 1 Revision date: 2018-06-28 Page 116 of 124

Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0.020173
	Risk from environmental exposure is driven by marine
	water.
	95.1 kg/d
Maximum amount of safe use	
Risk from environmental exposure is driven by marine water.	

Contributing exposure scenario	
Use descriptors covered	AC13: Plastic articles
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 8 min 12 uses per year
Room size	20 m3
Ventilation rate per hour	0.6
Exposed skin area	Half body surface (8750 cm²)
Uptake fraction dermal	100 %
	Amount per use 8,000 g Relevant for inhalative exposure estimates
Exposure estimate and reference to	its source
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	0.9589 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000393
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	4.5347 mg/m³
Risk Characterization Ratio (RCR)	0.05335
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org	/tra

11. Short title of exposure scenario

Consumer applications

SU21; ERC8d; PC1, PC8, PC9a, PC9b

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ECPA SPERC 8d.2.v2
Operational conditions	

R0704399 Version 1 Revision date: 2018-06-28 Page 117 of 124

Annual amount used in the EU	3,500,000 kg	
Minimum emission days per year	365	
Emission factor air	100 %	
Emission factor water	0 %	
Emission factor soil	0 %	
Receive Surf. Water (Flow Rate).	18,000 m3/d	
Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures		
Type of STP		Municipal STP
Assumed sewage treatment plant flow (m3/d)	2,000 m3/d
Exposure estimate and reference to its source		
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment	
Risk Characterization Ratio (RCR)	0.020168	
	Risk from environmental ex	xposure is driven by marine
	water.	
	95.1 kg/d	
Maximum amount of safe use		
Risk from environmental exposure is driven by marine water.		

Contributing exposure scenario		
Use descriptors covered	EFCC SPERC 8D.1a.v1: E	EFCC SPERC 8D.1a.v1
Operational conditions	1	
Annual amount used in the EU	3,500,000 kg	
Minimum emission days per year	365	
Emission factor air	98 %	
Emission factor water	1 %	
Emission factor soil	0 %	
Receive Surf. Water (Flow Rate).	18,000 m3/d	
Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures		
		Municipal STP
Assumed sewage treatment plant flow (m3/d) 2,000 m3/d		2,000 m3/d
Exposure estimate and reference to its source		
Assessment method	EASY TRA v3.6, ECETOO	TRA v3.0, Environment
	D0704200 Varsion 1	Povision data: 2019 06 20

Risk Characterization Ratio (RCR)	0.020263
	Risk from environmental exposure is driven by marine
	water.
	94.6 kg/d
Maximum amount of safe use	
Risk from environmental exposure is driven by marine water.	

Contributing exposure scenario		
Use descriptors covered	PC1: Adhesives, Sealants	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 20 %	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	Exposure duration: 4 min 12 uses per year	
Room size	20 m3	
Ventilation rate per hour	0.6	
Exposed skin area	Fingertips (36 cm2)	
Uptake fraction dermal	100 %	
	Amount per use 255 g Relevant for inhalative exposure estimates	
Exposure estimate and reference to	o its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer	
	Consumer - dermal, long-term - systemic	
Exposure estimate	0.0392 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000016	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer	
	Consumer - inhalation, long-term - systemic	
Exposure estimate	20.9242 mg/m³	
Risk Characterization Ratio (RCR)	0.246167	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org	g/tra	

Contributing exposure scenario		
Use descriptors covered	PC8: Biocidal Products.	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 20 %	
Vapour pressure of the substance during use	0.18 Pa	

R0704399 Version 1 Revision date: 2018-06-28 Page 119 of 124

Process temperature	20 °C	
Duration and Frequency of activity	Exposure duration: 240 min	
	Relevant for inhalative exposure estimates	
Duration and Frequency of activity	9 uses per year	
Burdien and Frequency of delivity	Relevant for inhalative exposure estimates	
Duration and Frequency of activity	9 uses per year	
	Relevant for dermal exposure estimates	
Room size	20 m3	
Ventilation rate per hour	0.6	
body weight	65 kg	
Uptake fraction dermal	100 %	
Spray duration	360 sec	
Contact rate	100 mg/min	
Release duration	6 min	
	Relevant for dermal exposure estimates	
Risk Management Measures		
Consumer Measures	Ensure spraying away from persons.	
Exposure estimate and reference to its source		
-	EASY TRA v3.6, ConsExpo v4.1, Dermal model: constant	
Assessment method	application rate, Uptake model: Uptake fraction	
	Consumer - dermal, long-term - systemic	
Exposure estimate	0.0455 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000019	
,	The calculation is based on the internal chronic dose.	
A	EASY TRA v3.6, ConsExpo v4.1, Inhalation model:	
Assessment method	Exposure to spray/dust	
	Consumer - inhalation, long-term - systemic	
Exposure estimate	0.2668 mg/m³	
Risk Characterization Ratio (RCR)	0.003139	
	The exposure calculation is based on the mean	
	concentration per year.	
Guidance to Downstream Users		
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp		

Contributing exposure scenario		
	PC9a: Coatings and paints, thinners, paint	
	removers	
Use descriptors covered		
Operational conditions		
	Sodium dodecyl sulphate	
Concentration of the substance	Content: >= 0 % - <= 20 %	
Vapour pressure of the substance	0.18 Pa	
during use		
Process temperature	20 °C	
Process temperature		
Duration and Fraguency of activity	Exposure duration: 0.33 min 12 uses per year	
Duration and Frequency of activity		
Room size	20 m3	

R0704399 Version 1 Revision date: 2018-06-28 Page 120 of 124

Ventilation rate per hour	0.6	
	Amount per use 300 g Relevant for inhalative exposure	
	estimates	
Exposure estimate and reference to its source		
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer	
	Consumer - inhalation, long-term - systemic	
Exposure estimate	20.9242 mg/m³	
Risk Characterization Ratio (RCR)	0.246167	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario		
Use descriptors covered	PC9b: Fillers, putties, plasters, modelling clay	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate	
	Content: >= 0 % - <= 20 %	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	Exposure duration: 2 min 12 uses per year	
Room size	20 m3	
Ventilation rate per hour	0.6	
Exposed skin area	Both hands (820 cm ²)	
Uptake fraction dermal	100 %	
	Amount per use 25,000 g Relevant for inhalative exposure estimates	
Exposure estimate and reference to its source		
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer	
	Consumer - dermal, long-term - systemic	
Exposure estimate	0.9397 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000385	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer	
	Consumer - inhalation, long-term - systemic	
Exposure estimate	20.9242 mg/m³	
Risk Characterization Ratio (RCR)	0.246167	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

12. Short title of exposure scenario

Consumer applications

SU21; ERC8f; PC1, PC9a, PC9b

Control of exposure and risk management measures

Contributing exposure scenario

R0704399 Version 1 Revision date: 2018-06-28 Page 121 of 124

Use descriptors covered	EFCC SPERC 8F.1a.v1: E	FCC SPERC 8F.1a.v1
Operational conditions		
Annual amount used in the EU	3,500,000 kg	
Minimum emission days per year	365	
Emission factor air	0 %	
Emission factor water	1 %	
Emission factor soil	3.7 %	
Receive Surf. Water (Flow Rate).	18,000 m3/d	
Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures		
Type of STP Municipal STP		Municipal STP
Assumed sewage treatment plant flow	(m3/d)	2,000 m3/d
Exposure estimate and reference to	its source	
Assessment method EASY TRA v3.6, ECETOC TRA v3.0, Environment		TRA v3.0, Environment
Risk Characterization Ratio (RCR) 0.020263		
	Risk from environmental ex	xposure is driven by marine
	water.	
Maximum amount of safe use	94.6 kg/d	
Risk from environmental exposure is di	iven by marine water.	

Contributing exposure scenario		
Use descriptors covered	PC1: Adhesives, Sealants	
Operational conditions		
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 20 %	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	Exposure duration: 4 min 12 uses per year	
Room size	20 m3	
Ventilation rate per hour	0.6	
Exposed skin area	Fingertips (36 cm2)	
Uptake fraction dermal	100 %	
	Amount per use 255 g Relevant for inhalative exposure estimates	
Exposure estimate and reference to its source		

R0704399 Version 1 Revision date: 2018-06-28 Page 122 of 124

Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	0.0392 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000016
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	20.9242 mg/m³
Risk Characterization Ratio (RCR)	0.246167
Guidance to Downstream Users	

For scaling see: http://www.ecetoc.org/tra

Contributing exposure scenario		
Use descriptors covered	PC9a: Coatings and paints, thinners, paint removers	
Operational conditions		
	Sodium dodecyl sulphate	
Concentration of the substance	Content: >= 0 % - <= 20 %	
Vapour pressure of the substance during use	0.18 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	Exposure duration: 0.33 min 12 uses per year	
Room size	20 m3	
Ventilation rate per hour	0.6	
	Amount per use 300 g Relevant for inhalative exposure	
	estimates	
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer	
	Consumer - inhalation, long-term - systemic	
Exposure estimate	20.9242 mg/m³	
Risk Characterization Ratio (RCR)	0.246167	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario	
Use descriptors covered	PC9b: Fillers, putties, plasters, modelling clay
Operational conditions	
Concentration of the substance	Sodium dodecyl sulphate Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.18 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 2 min 12 uses per year
Room size	20 m3
Ventilation rate per hour	0.6
Exposed skin area	Both hands (820 cm²)

R0704399 Version 1 Revision date: 2018-06-28 Page 123 of 124

Uptake fraction dermal	100 %
	Amount per use 25,000 g Relevant for inhalative exposure
	estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	0.9397 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000385
Assessment method	EASY TRA v3.6, ECETOC TRA, Consumer
	Consumer - inhalation, long-term - systemic
Exposure estimate	20.9242 mg/m³
Risk Characterization Ratio (RCR)	0.246167
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

R0704399 Version 1 Revision date: 2018-06-28 Page 124 of 124