

As part of Northwest Coatings Corp.'s program to communicate health and safety information to our customers, we regularly review and update our MSDS to provide information that is as complete and current as possible. The attached MSDS is the current update for the product that we currently supply to your company. If any hazardous components are present, they will be listed in the MSDS section II Hazardous Components along with the CAS number and the percent present in the compound. Information is also reported in Section II to meet the requirements of SARA Title III – Section 313.

This memo is part of the MSDS and must not be detached from the MSDS. Any copying or redistribution of the MSDS shall include this memo. We suggest you read the enclosed material closely and forward it to the appropriate personnel within your company. If you have any questions about this information, please contact us at 414-762-3330 or Chemtrec at 1-800-424-9300.

NORTHWEST COATINGS CORP.

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## Material Safety Data Sheet

Product # 20000C

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**NORTHWEST COATINGS LLC.**  
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**OAK CREEK, WI 53154 USA**  
**PHONE: 414-762-3330**

**EMERGENCY PHONE NUMBER:** Chemtrec 800-424-9300  
**PREPARED BY:** Martin Baur  
**PREPARATION DATE:** August 27, 1996  
**REVISION DATE:** January 19, 2006

### I. PRODUCT IDENTIFICATION

**PRODUCT:** 20000C

**HMIS CODE**

**TRADE NAME:** Dry Release Adhesive

**HEALTH:** 1

**FLAMMABILITY:** 1

**CHEMICAL NAME:** Polyvinyl Acetate Emulsions

**REACTIVITY:** 0

**PERSONAL PROTECTION:** C

**CHEMICAL FAMILY:** Formulated Ethylene Vinyl Acetate Emulsion

### II. HAZARDOUS COMPONENTS

<u>COMPONENT</u>	<u>CAS NUMBER</u>	<u>Weight %</u>	<u>Regulated Under SARA 313</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
Vinyl acetate monomer	108-05-4	<0.9%	YES	10.0 ppm	Not Estab.

### III. PHYSICAL PROPERTIES

<b>BOILING POINT (water 212°F):</b>	210–212°F	<b>SPECIFIC GRAVITY:</b>	1.05-1.10
<b>VAPOR PRESSURE (MM HG at 70°F):</b>	18.52	<b>WEIGHT PERCENT VOLATILE:</b>	44-46 (Mostly Water)
<b>VAPOR DENSITY (air=1):</b>	Equal to water	<b>WEIGHT % VOC:</b>	<1.0% (Calculated)
<b>SOLUBILITY IN WATER:</b>	Dispersible in water	<b>pH:</b>	4-7
<b>APPEARANCE AND ODOR:</b>	White with characteristic odor	<b>EVAPORATION RATE (n-Butyl Acetate=100):</b>	Slower than n-Butyl Acetate

IN ACCORDANCE WITH GOOD PRACTICES OF PERSONAL CLEANLINESS AND HYGIENE HANDLE WITH DUE CARE AND AVOID ANY UNNECESSARY CONTACT WITH THIS PRODUCT. THIS INFORMATION IS SUPPLIED TO YOU UNDER THE OSHA "RIGHT TO KNOW" REGULATION 29 CFR 1910.1200. THE INFORMATION IS BELIEVED TO BE TRUE AND ACCURATE. NO WARRANTY EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA, THE HAZARDS THAT MAY BE ASSOCIATED WITH ITS USE OR THE RESULTS TO BE OBTAINED FROM ITS USE, IS MADE.

REF: AWI-011

**FORM 503**  
**REVISION 0**

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### IV. REACTIVITY DATA

**STABILITY:** This product is stable at ambient temperatures. Coagulation may occur following freezing, thawing or boiling.

**CONDITIONS TO AVOID:** None known

**INCOMPATIBILITY (material to avoid):** Strong acids and bases. Materials that react with water

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition is insignificant if kept below 260°C for a short period of time. Oxides of carbon may be released in a fire. Acetic acid and other toxic fumes may be released at elevated temperatures.

**HAZARDOUS POLYMERIZATION:** Will not occur.

### V. FIRE & EXPLOSION HAZARD DATA

**FLASH POINT (°F):** > 200°F      **FLAMMABLE LIMITS:** Class IIIB      **LEL:** N/A      **UEL:** N/A

**EXTINGUISHING MEDIA:** Use carbon dioxide or water spray.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear a NIOSH approved self-contained breathing apparatus. Wear appropriate personal protective equipment.

**UNUSUAL FIRE & EXPLOSION HAZARDS:** Product will not burn as sold. Product may splatter when heated to boiling.

### VI. HEALTH HAZARD DATA

**A. LISTED CARCINOGENICITY:**      **IARC -** Yes 2B- Vinyl      **NTP -** No      **OSHA -** No  
Acetate  
Monomer

The International Agency for Research on Cancer has determined vinyl acetate monomer to be carcinogenic in experimental animals. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Also, see vinyl acetate monomer statement at the end of this MSDS.

**B. EFFECTS OF OVEREXPOSURE** Note to physicians. Treat symptoms of exposure.

**EYE:** Product may cause moderate eye irritation.

**SKIN:** Prolonged or repeated skin contact can cause irritation.

**INHALATION:** Vapors and/or aerosols that may form at elevated temperatures may be irritating to eyes and respiratory tract.

**INGESTION:** No hazard expected in normal industrial use. Ingestion is not a likely route of exposure.

**KNOWN EFFECTS ON OTHER ILLNESS:** None Known

**C. EMERGENCY AND FIRST AID PROCEDURES**

**EYE:** Hold eyelids apart and flush with plenty of water for at least 15 minutes. Seek medical attention.

**SKIN:** Wash with soap and water. Contact a physician if irritation develops or persists.

**INHALATION:** Remove to fresh air. If breathing remains difficult seek medical attention.

**INGESTION:** If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person.

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### D. PROTECTIVE EQUIPMENT

Eye wash stations and safety showers in the work place are recommended. Smoking and eating areas where this product is used should be strictly prohibited. Wash thoroughly after handling, especially before eating, smoking or using the toilet facilities.

**EYE:** The use of safety glasses (ANSI Z87.1 or equivalent) is recommended as good industrial practice. Wear slash proof safety eye protection if splashing or misting of product may occur.

**SKIN:** Where skin contact can occur, wear impervious gloves.

**VENTILATION:** Maintain good mechanical exhaust. Local exhaust ventilation with a minimum capture of 100FPM at source point should be suitable to keep vapor concentrations below TLV.

**RESPIRATORY PROTECTION:** Usually not required if ventilation is adequate. Follow requirements for respiratory protection in OSHA 1910.134.

**OTHER PROTECTIVE EQUIPMENT:** Eye wash facility and a safety shower should be available.

## VII. PRECAUTIONS FOR SAFE HANDLING AND STORAGE

### A. STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK

Use absorbent to dike spill. Keep unnecessary people away. Floor may become slippery. Stop discharge if it is safe to do so. Absorb liquid into an inert material and shovel mixture into an approved container. If spill has dried scrape up and place in an approved container.

### B. HANDLING AND STORAGE:

Do not freeze. Drain emptied containers completely. Empty containers may contain product residue; follow MSDS and label warnings even after they have been emptied. Store product in closed original containers at temperatures between 40-90°F.

## VIII. OTHER DISPOSAL INFORMATION

Waste Disposal: Disposal of this product must comply with all applicable federal, state, and local regulations.

Container Disposal: Disposal of containers should comply with all federal, state and local regulations.

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### IX. SPECIAL PRECAUTIONS

#### Regulatory Update on Vinyl Acetate Monomer

The International Agency for Research on Cancer (IARC) is an agency that evaluates research on chemicals and classifies them according to carcinogenicity. February 1995 IARC voted to revise the classification of vinyl acetate monomer to a "possible human carcinogen". This category is generally used for chemicals with limited evidence of carcinogenicity in humans or in experimental animals. Currently, human and animal data on vinyl acetate monomer does not constitute ranking it as a carcinogen. This reclassification is based on information that vinyl acetate monomer is converted in the body to acetaldehyde. Acetaldehyde is listed as a possible human carcinogen.

##### Background on Vinyl Acetate Monomer

Vinyl acetate monomer is a colorless liquid that is used as a chemical building block in the manufacture of a variety of industrial and consumer products. Nearly half of all vinyl acetate monomer produced in the US is used in polyvinyl acetate production. These polymers are used in paints, adhesives, textile sizings and finishes, nonwoven textile binders, paper coatings and specialty coatings for flexible substrates.

The American Conference of Governmental Industrial Hygienists (ACGIH) has established a Threshold Limit Value (TLV) for vinyl acetate monomer at 10 ppm as an eight-hour time-weighted average. The 15-minute average or Short Term Exposure Limit (STEL) is set at 15 ppm. The exposure limit was set based on the irritant effects of vinyl acetate monomer to the eyes and upper respiratory system and is not changed as a result of IARC's reclassification.

The odor threshold for vinyl acetate monomer is 0.5 ppm, indicating that most people can smell it at concentrations well below the exposure limit. Vinyl acetate smells much like ether. Most people find concentrations above 20 ppm to be irritating to the eyes and respiratory tract.

##### Background on Acetaldehyde

Vinyl acetate monomer is classified to a possible human carcinogen since it is broken down in the human body to acetaldehyde. Acetaldehyde is a designated possible human carcinogen based upon animal test data. This designation is not supported by evidence of human carcinogenicity. It is important to note that acetaldehyde is considered by the FDA to be "Generally Recognized as Safe" and is approved for use as a food additive and flavoring agent. Acetaldehyde is an important component of food flavorings added to milk products, baked goods, fruit juices, candy, desserts and soft drinks. The acetaldehyde level in food products is generally up to 0.047%. Acetaldehyde is naturally found in a variety of fruits and may form in wine and other alcoholic beverages after exposure to air. It is a major metabolite of ethyl alcohol.

This Northwest Coatings product contains 0.1% or more vinyl acetate monomer and as such we are required by law to include the new IARC information with regard to vinyl acetate monomer.