

Consultants to the Sheet Metal Industry

MATERIAL SAFETY DATA SHEET

Section 1: Product Name: Ward Water Based Sealer (non-fibrated)
Product Description (product use): Sealant

COMPANY INFORMATION

Ward Industries Inc.
1661 Lebanon Church Road
Pittsburgh, PA 15236
Phone: 412-653-7777 or 800-466-9374
Fax: 412-653-8697

MSDS INFORMATION

Preparation Date: 2/03/98
Supersedes: N/A

Medical Emergency Phone Number: 1-888-853-1758

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

Section 2: Composition/Information on Ingredients

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS). Unlisted ingredients are not 'hazardous' per the OSHA standard and/or are not found on the WHMIS ingredient disclosure list.

<u>Chemical/CAS Number</u>	<u>Percent</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Residual vinyl acetate monomer (108-05-4)	<0.5%	10 ppm	10 ppm
LD50: 2920 mg/kg (oral, rat)	LC50: 2828 ppm/4h (rat)		
Vapor pressure, in mm Hg @ 20 C: 92			
OSHA, ACGIH STEL: 20 ppm			

See Section 16 for additional information

Section 3: Hazards Identification

EMERGENCY OVERVIEW

No specific warnings for normal use conditions.
Possible cancer hazard. Contains a material which may cause cancer.

POTENTIAL HEALTH EFFECTS

Eyes: Eye contact with liquid product may cause irritation.

Skin: Prolonged or repeated contact with liquid product may cause irritation.

Inhalation: Exposure to vapors in poorly ventilated areas may cause irritation of the nose, throat and respiratory tract.

Ingestion: Not an anticipated route of exposure. Small amounts are not anticipated to be harmful.

Chronic: When the product is in its final form and is abraded or disturbed, dusting may occur and crystalline silica may be released into the air. Long-term overexposure to crystalline silica may cause permanent lung damage and reduced pulmonary function. Overexposure to vinyl acetate is not expected to occur during normal handling and use of this product. Vinyl acetate has been shown to cause irritation and cancer in inhalation studies with laboratory animals. Test levels of 600 ppm caused an increase in tumors in the respiratory tract of the test animals. No tumors were observed in the animals exposed at 50 ppm or lower. There is no evidence that vinyl acetate has caused cancer in humans

REGULATED CARCINOGEN STATUS:

Crystalline silica is listed as a potential carcinogen by NTP and IARC.
Vinyl acetate is listed as a potential carcinogen by IARC.

Existing Health conditions Affected by Exposure: No known effects on other illnesses.

Section 4: First Aid Measures

If in eye: Flush immediately with water for 15 minutes. Consult a physician if irritation persists.

Section 4: First Air Measures (continued)

If on skin: Wash affected area with soap and water. Launder contaminated clothing before reuse.

If vapors inhaled: Remove subject to fresh air.

If ingested: If person can swallow, give one glass of water or milk. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.

Section 5: Fire Fighting Measures

Flash Point/Method: >200 DEGREES degrees F SETA

Upper Explosive Limit/Lower Explosive Limit: Not Applicable

Autoignition temperature: Not applicable

Appropriate Extinguishers: Non-flammable in liquid state; use water spray, foam, dry chemical or carbon dioxide on dried product.

Special Fire Fighting Procedures: Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

Unusual Fire and Explosion Hazards: There is the possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers.

Hazardous Combustion Product: Incomplete combustion can yield low molecular weight hydrocarbons, carbon monoxide, nitrogen compounds.

Section 6: Accidental Release Measures

Spill or Leak Procedures: Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds or water systems.

Section 7: Handling and Storage

HANDLING INFORMATION

HANDLING INFORMATION (continued)

Wear appropriate protective equipment when working with this product.

STORAGE INFORMATION

Avoid temperature extremes in storage.

Consult the Technical Data Sheet for specific storage instructions.

Section 8: Exposure Controls/Personal Protection

Eye Protection: Wear safety glasses to reduce the potential for eye contact; chemical safety goggles are appropriate if splashing or dusting is likely. Have eye washes available where eye contact can occur.

Skin Protection: Prevent prolonged or repeated contact by using rubber gloves and appropriate protective clothing. Launder contaminated clothing before reuse.

Respiratory Protection: Not normally required. Use NIOSH/MSHA approved respirator if conditions warrant.

Ventilation: General dilution ventilation.

Section 9: Physical and Chemical Properties

Physical State:	Liquid
Color:	Gray
Odor:	Latex
Odor Threshold:	Not established
Weight per Gallon:	11.7 lbs.
Specific Gravity:	1.4
% Solids by Weight:	70
pH:	8.5
Boiling Range:	Greater than 200 F (93 C)
Freezing/Melting Point:	Not established
Vapor Pressure:	Not established
Vapor Density:	Not established
Evaporation Rate:	Not established
Water/Oil Partition Coefficient:	Not established

Section 9: Physical and Chemical Properties (continued)

VOC, less water: 13.6 g VOC/liter of material, less water and exempt solvents
(VOC theoretically determined using EPA Publication 450/3-84-019.)

Section 10: Stability and Reactivity Data

Stability: Stable

Incompatibility: Not established.

Hazardous Decomposition: Nitrogen compounds

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

No data available

Section 12: Ecological Information

No data available

Section 13: Disposal Considerations

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

Section 14: Transportation Information

UNITED STATES DEPARTMENT OF TRANSPORTATION (DOT)

DOT Proper Shipping Name: Water Base Coating, N.M.F.C. Item #149980 SUB 2
DOT Hazard Class/I.D. Code: Non-Hazardous
DOT Label: None
Marine Pollutants: N

Section 14: Transportation Information (continued)

It is our opinion that the information provided here may be used to transport this product in compliance with Canadian Transportation of Dangerous Goods.

INTERNATIONAL TRANSPORTATION

IATA Proper Shipping Name: Industrial Sealing Compound, ITEM #4730
Water Base
IATA Hazard Class: Non-Hazardous
IATA Label: None N

Section 15: Regulatory Information

FEDERAL

Toxic Substances Control Act (TSCA)

Section 8 (b) - Inventory Status

This product is in compliance with the Toxic Substances Control Act's Inventory requirements.

SARA TITLE III

Section 313: This product contains the following toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Percent</u>
Vinyl acetate	108-05-4	<0.5%

STATE REGULATIONS

California Proposition 65: This product contains chemical(s) known to the state of California to cause cancer (c) or reproductive (r) damage.

<0.0057% Acetaldehyde (c) listed April 1, 1988	75-07-0
<0.0027% Formaldehyde listed January 1, 1988	50-00-0

Section 15: Regulatory Information (continued)

STATE REGULATIONS

0.1-1.0% Crystalline silica (c) listed October 1, 1988	14808-60-7
<0.0003% 1,4-Dioxane (c) listed July 1, 1988	123-91-1
<0.0025% Ethyl acrylate (c) listed July 1, 1989	140-88-5
<0.0010% Lead (c) (r) listed February 27, 1987	7439-92-1
<0.0014% Toluene (r) listed January 1, 1991	108-88-3

Section 16: Additional Information

In storage, monomer vapors will migrate from the emulsion and establish an equilibrium between the headspace in the storage container and the liquid emulsion. Levels in excess of acceptable exposures can accumulate in non-vented headspaces above the emulsion. All procedures appropriate for a confined space entry should be completed prior to performing any work in a bulk storage tank.

This product contains the following substances (s) identified by OSHA, WHMIS, or the ACGIH as hazardous. During normal use, the material will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur.

10-30%	Calcium carbonate (1317-65-3) Exposure limit total dust 15 mg/M3 (OSHA) 10 mg/M3 (ACGIH) Exposure limit respirable dust 5 mg/M3 (OSHA) LD50: No data found LC50: No data found
10-30%	Kaolin (1332-58-7) Exposure limit total dust 10 mg/M3 (OSHA) 10mg/M3 (ACGIH) Exposure limit respirable dust 5 mg/M3 (OSHA) 2 mg/M3 (ACGIH) LD50: No data found LC50: No data found
0.1-1.0%	Silica-crystalline (14808-60-7) Exposure limit respirable dust 0.1 mg/M3 (OSHA) 0.1 mg/M3 (ACGIH) LD50: No data found LC50: No data found

HMIS RATING

Health-1 Flammability-0 Reactivity-0

Section 16: Additional Information (continued)

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to Ward Industries Inc. from its suppliers, and because Ward Industries has no control over the conditions of handling and use, Ward Industries makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and Ward Industries Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of Ward Industries products to comply with all applicable federal, state and local laws and regulations.