



Mr. Hard Water® PROTECTIVE SEALANT

Material Safety
Data Sheet

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MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

IDENTITY: Mr. Hard Water® Protective Sealant

Emergency Telephone Number: **CHEMTREC: USA: 800-424-9300; INT'L: 703-527-3887 (Collect)**

U.S DEPARTMENT OF LABOR

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB. No. 1218-0072

I. PRODUCT IDENTIFICATION

IDENTITY: Mr. Hard Water® Protective Sealant – Glass Sealer

II. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION.

Ingredients	CAS #	% (weight)	Exposure Limits (TLV)
Ethyl Alcohol	64-17-5	2	1000ppm
Isopropyl solvent	67-63-0	78	400 ppm
Silicon Polymers			

III. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:	70°C	Specific Gravity (H2O = 1):	810
Vapor Pressure:	33mmHg	Melting Point:	N/Av
Vapor Density(AIR = 1)	>1	Evaporation Rate: (Ether=1)	
Percent, Volatile, by Volume:	>80%		
Solubility in Water:	Soluble		
Acid Value:	8.0		

Appearance and Odor: Slightly yellow to clear liquid, alcohol odor

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): Closed Cup 65 F
Flammable Limits: LEL: unknwn UEL: unknwn.
Extinguishing Media: Alcohol Foam, Co2, or dry chemical.

Special Fire Fighting Procedures: Self-contained breathing apparatus with a full face piece operated in pressure-demand or other positive pressure mode. Protective clothing should be worn.

Unusual Fire and Explosion Hazards: Static electricity is not expected to build up. Product is sensitive to static. Make sure all containers are grounded before pumping or pouring liquid. Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot light, other flames, and ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Form OSHA 174, Sept. 1985

NFPA (NATIONAL FIRE PROTECTION ASSOCIATION STANDARD)
Health Hazard: 1 Flammability: 3 Reactivity: 0

V. REACTIVITY DATA

Stability: Unstable: Stable: (X)
 Conditions to Avoid: None
 Incompatibility (materials to avoid): Contact with strong oxidizing agents, (e.g. Nitric Acid) can cause a reaction.
 Hazardous Decomposition or Byproducts: Silicon dioxide, carbon oxides, trace amounts of formaldehyde may form above 300F.
 Hazardous Polymerization: May Occur: Will not occur: (X)
 Condition to avoid: Excess heat, sparks, and flames.

VI. HEALTH HAZARD DATA

Threshold Limit Value: 400 PPM
 Route(s) of Entry: Inhalation? Yes Skin? Yes Ingestion? Yes
 Health Hazards (Acute and Chronic):
 Carcinogenicity: NTP? No IARC Monographs? No
 OSHA Regulated? No

Signs and Symptoms of Exposure:

EYES: Over exposure can cause irritation. Excessive exposure can cause redness, tearing, and blurred vision.

SKIN: Over exposure can cause irritation. Prolonged or repeated contact can cause irritation, defatting, and dermatitis. Soaked clothing should be changed immediately.

BREATHING: Inhalation for short exposures of less than 8 hours should not cause injury. Excessive vapors can cause nasal and respiratory irritation, dizziness, nausea, headache, possible unconsciousness.

SWALLOWING: Oral contact from the fingers to the mouth should not cause injury. Swallowing large amounts may cause digestive discomfort, stomach cramps, nausea, vomiting, and or diarrhea.

Medical Conditions Generally Aggravated by Exposure: Skin conditions such as eczema.

Emergency and First Aid Procedures:

HEALTH EMERGENCY:

FLORIDA POISON CONTROL CENTER (800)282-3171

EYES: Flush with water for at least 15 minutes and seek immediate medical attention.

SKIN: Wash with soap and large quantities of water. Seek medical attention if irritation from contact persists.

INHALATION: If breathing difficulties, dizziness, or lightheadedness occurs when working in areas with high vapor concentrations, victim should seek air free of vapors. If breathing stops, begin artificial respiration and seek immediate medical advice and/or attention.

SWALLOWING: DO NOT INDUCE VOMITING. Seek immediate medical advice and/or attention.

VII. PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in Case Material is Released or Spilled: Keep container closed and stored away from heat, sparks, and open flame. Sources of ignition and hot metal surfaces isolated from the spill. Flush spilled material into suitable retaining areas or containers with large quantities of water. Small amounts of spilled material may be absorbed into an appropriate absorbent such as vermiculite. Waste Disposal Method: Dispose of product in accordance with local, county, state and federal regulations.

Precautions to be Taken in Handling and Storing: Keep product container cool, dry and away from sources of ignition. Store in an area with adequate ventilation.



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Other Precautions: Personnel should avoid inhalation of vapors. Should product splash on a person, remove saturated clothing and flush contaminated areas. Launder clothing before reuse. Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in this data sheet must be observed.

VIII. CONTROL MEASURES

Respiratory Protection (Specify Type): If TLV of the product or any component is exceeded, a NIOSH/MSHA jointly approved air supplied respirator is advised.

Ventilation: Provide sufficient ventilation mechanical and/or local exhaust to maintain exposure below

TLV's **Protective Gloves:** The use of Nitrile rubber gloves is advised to prevent skin irritation in sensitive individuals.

Eye Protection: Use goggles or face shields to safeguard against potential eye contact.

Other Protective Clothing or Equipment: To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Bell Performance, Inc. (REV 1/2007)

IX. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	70°C	Specific Gravity (H2O = 1):.810
Vapor Pressure:	33mmHg	Melting Point: N/Av
Vapor Density(AIR = 1)	>1	Evaporation Rate: (Ether=1)
Percent, Volatile, by Volume:	>80%	
Solubility in Water:	Soluble	
Acid Value: 8.0		
Appearance and Odor:	Clear liquid, alcohol odor	

X. STABILITY AND REACTIVITY

Stability: Unstable: Stable: X

Conditions to Avoid: Excess heat, sparks, and flames

Incompatibility (materials to avoid): Contact with strong oxidizing agents, (e.g. Nitric Acid)

Hazardous Decomposition or Byproducts: SiO₂, CO, CO₂, and traces of incompletely burned carbon products.

Hazardous Polymerization: May Occur: Will not occur: X

XI. LEXICOLOGICAL INFORMATION

Carcinogenicity:

NTP? No IARC Monographs? Cat 3 OSHA Regulated? No

Oral Rat LD50: 5045 mg/kg; skin rabbit LD50:12.8 gm/kg; inhalation rat LC50:16,000ppm/8-hour Investigated as a tumorigen, mutagen, reproductive effector

XII. ECOLOGICAL INFORMATION

Environmental Fate: When released into the soil, this material is expected to quickly evaporate. When released into the soil, this material may leach into groundwater. When released into the soil, this material may biodegrade to a moderate extent.

When released to water, this material is expected to have a half-life of between one and ten days. When released into water, this material may biodegrade to a moderate extent. This material is not expected to significantly bioaccumulate.

When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life of between one and ten days. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition.

Environmental Toxicity: The LC50/96-hour values for fish are over 100 mg/L. This material is not expected to be toxic to aquatic life.

XIII. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA-approved incinerator or disposed in a RCRA-approved waste facility.

Processing, use or contamination of this product may change the waste management options. State and local regulation disposal regulation may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

XIV. TRANSPORT INFORMATION

Domestic (Land, D.O.T.)

Proper Shipping Name: Alcohol, n.o.s.

Hazard Class: 3

UN/NA:UN1987

Packing Group: II

Information Reported for Product/Size: 200L

International (Water, I.M.O.)

Proper Shipping Name: Alcohol, n.o.s.

Hazard Class: 3

UN/NA: UN 1987

Packing Group: II

Information Reported for Product/Size: 200L

XV. REGULATORY INFORMATION

Chemical Weapons Convention: No

TSCA12(b):Yes

CDTA: Yes

SARA 311/312:

Acute-Yes

Chronic - Yes

Fire - Yes

Pressure - No

Reactivity - No

Poison Schedule: None allocated

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and contains all of the information required by the CPR.

XVI. OTHER INFORMATION

NFPA Ratings:

Health Hazard: 1 Flammability: 3 Reactivity: 0

Product Use: Coating

Label Hazard Warning: DANGER! FLAMMABLE. Do not store or use near heat, sparks, or flame. Use in well-ventilated area. Contains isopropanol.

Label Precautions: Keep out of reach of children.

Label First Aid: If splashed on skin or in eyes, flush with clear water.

If swallowed, do not induce vomiting. Call Physician immediately.