

MATERIAL SAFETY DATA SHEET

IDENTITY

(As Used on Label and List)

HOTLINE FIBER MOLD HARDENER (CAT. # 4850R)

SECTION I – Manufacturer/Product Identification:

Manufacturer's (Distributor's) Name:

Creative Craftsmen Co., Inc.
27625 Diehl Road
Warrenville, Illinois 60555-3838

Emergency Telephone Number:

888- 215-4878

Information Telephone Number:

630-836-1353 Toll Free: 800-323-5668

Trade Name: HOTLINE FIBER MOLD HARDENER

Product Type: Hardener for fiber molds

Chemical Family: Rigidizer

Date Prepared: 10/08/10

Revision: 02/10/12

Prepared By: Satterfield Consulting

SECTION II – Hazardous Ingredients Information:

The information contained herein is believed to be correct and reliable. However, no warranty is expressed or implied regarding the accuracy of this data, and none is made as to the marketability of the material or its fitness for any purpose. The consumer accepts the responsibility of and the conditions for liability of use of the product. This product contains material that may be hazardous when airborne as a vapor or particulate.

HAZARDOUS COMPONENTS^a:

(Specific Chemical Identity;

Common Name	CAS Number	SARA ^b	OSHA PEL ^c (mg/m ³) ^e	ACGIH TLV ^d (mg/m ³)	NOTES	PERCENT ^f
Silica-Amorphous	7631-86-9		2.2 ^g	---	Respirable ACGIH (Inhalable)	36.75
Propylene Glycol	57-55-6		---	10	TLV is the AIHA WEEL ^h	17.75
Water	7732-18-5		---	---	---	45.5

Notes:

- The term "Hazardous" is defined in the OSHA Hazard Communication Standard (29 CFR 1910.1200) and does not necessarily imply the existence of any hazard. All components at concentrations equal to or greater than 1.0 percent (0.1 percent if a carcinogen) are listed in this section, according to OSHA 29 CFR 1910.1200.
- An asterisk (*) indicates a toxic chemical subject to the EPA's reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (SARA) and 40 CFR Part 372.
- These permissible exposure limits (PELs) are based on OSHA's rulemaking (29 CFR 1910 Subpart Z) adopted on May 29, 1971, and are the current regulatory limits, unless otherwise noted. Consult the OSHA regulations for particulate (29 CFR 1910.1000) for additional requirements.
- Unless otherwise noted, these values are based on the American Conference of Governmental Industrial Hygienists (ACGIH) 2011 TLVs.
- These values are reported as milligrams of contaminant per cubic meter of air (mg/m³).
- Approximate percent by weight values. Contact the manufacturer for additional information.
- The OSHA permissible exposure level for respirable and total mineral dusts containing silica are based on formulas established by OSHA in Table Z, Mineral Dusts, of 29 CFR 1910.1000.
- The WEEL is the Workplace Environmental Exposure Level established for propylene glycol. The American Industrial Hygiene Association (AIHA) has established this WEEL.

EMERGENCY OVERVIEW

May affect the central nervous system causing dizziness, headache and/or nausea.

Breathing mist and vapors can cause respiratory tract irritation.

Contact with eyes can cause irritation.

May cause mild skin irritation.

The propylene glycol component is slightly flammable.

SECTION III – Physical/Chemical Characteristics:

BOILING POINT:	ND	VAPOR DENSITY (Air = 1)	NA
MELTING POINT:	ND	VAPOR PRESSURE (mm Hg):	NA
SPECIFIC GRAVITY:	Less than 1.06 (H ₂ O = 1)	EVAPORATION RATE	
Density:	8.8 lbs/gallon	(Butyl Acetate = 1):	NA
pH:	NA		
APPEARANCE AND ODOR:	Clear liquid. No odor.	SOLUBILITY IN WATER:	Completely miscible

SECTION IV – Fire and Explosion Hazard Data:

FLASH POINT (Method Used):	This product is nonflammable but can support combustion. Significant airborne concentrations of vapor can create flammable/explosive conditions.		
For Propylene Glycol:	209.98 °F		
EXPLOSION LIMITS: Propylene Glycol	LEL:	2.6%	UEL: 12.6%
AUTOIGNITION TEMPERATURE	NA		
EXTINGUISHING MEDIA:	Use extinguishing media appropriate for surrounding fire including carbon dioxide, dry chemical, foam, halon, or water mist.		
SPECIAL FIRE FIGHTING PROCEDURES:	Wear appropriate protection for the surrounding fire. When fighting chemical fires wear self-contained breathing apparatus and full protective clothing. Use water spray to cool fire exposed containers until fire is out if it safe to do so. Do not spread material with water. Do not release runoff to sewers and waterways.		
UNUSUAL FIRE AND EXPLOSION HAZARDS:	When subjected to heat and flames, toxic gases such as carbon dioxide, carbon monoxide and organic compounds may be generated. When subjected to heat propylene glycol could be liberated and accumulate in non-ventilated spaces.		

NFPA Flammable and Combustible Liquids Classification:

For Propylene Glycol: Combustible Liquid Class III B

SECTION V – Reactivity Data:

STABILITY:	Stable:	<u> X </u>	Unstable:	<u> </u>
Conditions to Avoid:	None			
INCOMPATIBILITY (Materials to Avoid):	Isocyanates, strong acids and bases, strong oxidizing agents and UV light.			
HAZARDOUS POLYMERIZATION:	May Occur:	<u> </u>	Will Not Occur:	<u> X </u>
Conditions to Avoid:	Exposure to sunlight and moisture			
DECOMPOSITION PRODUCTS:	Aldehydes, alcohols, carbon dioxide, carbon monoxide, dioxolanes, ethers, organic acids and silicon dioxide.			

SECTION VI – Health Hazard Data:

ROUTE(S) OF ENTRY:	Skin/Eye	Skin
Inhalation: <u> Yes </u>	Contact: <u> Yes </u>	Absorption: <u> Yes </u>
		Ingestion: <u> Unlikely </u>

HEALTH HAZARDS (Acute and Chronic):**Acute (Short-Term) Effects:**

Inhalation: Inhalation of this material is possible under specific conditions of handling and use (e.g., during heating, stirring, spraying and sanding). Vapor, mist and dust inhalation may be harmful to the respiratory system. Respiratory tract irritation possible from inhalation of mist and dust due to physical nature of particulates. Inhalation may also cause central nervous system depression (e.g., dizziness, drowsiness, weakness, nausea, headache and unconsciousness). Exposure to airborne vapor and particulate may cause coughing and shortness of breath.

Eye and skin contact: Dust and mist exposure may cause irritation to eyes causing stinging, tearing and redness. Dust can cause skin irritation.

Ingestion: Ingestion may cause gastrointestinal irritation. Ingestion may also cause kidney damage.

SECTION VI – Health Hazard Data (Continued):**Chronic (Long-Term) Effects:**

Repeated and prolonged inhalation of dust, mist and vapor may cause impaired lung function. Smoking aggravates the effects of excessive exposure to particulate. Long-term overexposure to particulate containing amorphous silica may cause pneumoconiosis.

Overexposure to this material is a possible cause of kidney disease in laboratory animals.

CARCINOGENICITY: NTP: No IARC: No OSHA REGULATED: No

* * This product does not contain any ingredient that is designated as a carcinogen by IARC, NTP, or OSHA. NIOSH identifies amorphous fused silica as a potential human carcinogen.

REPRODUCTIVE HAZARDS: No reproductive hazards are known.

SIGNS AND SYMPTOMS OF EXPOSURE:

People who are exposed to this material through breathing, swallowing or skin absorption may experience respiratory tract irritation and central nervous system depression (e.g., dizziness, drowsiness, weakness, nausea, headache and unconsciousness).

This material may irritate the eyes and skin.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Individuals with preexisting conditions of the lungs may have increased susceptibility to the toxicity of excessive exposure including people with bronchitis, emphysema, and asthma. People who smoke and are exposed to respirable forms of amorphous silica are at a significantly higher risk of developing lung-related problems than people who do not smoke. Exposure to this material may aggravate preexisting eye and kidney disorders.

EMERGENCY AND FIRST AID PROCEDURES:

Inhalation: Exit to fresh air. Support breathing as needed. If conditions persist, seek medical attention. Keep person warm and quiet.

Eyes: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

Skin: Remove contaminated clothing and wash affected area with plenty of soap and water. If redness or irritation develops, seek medical attention. Discard or decontaminate clothing before reuse.

Ingestion: Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth. Place individual on left side with head down. Contact a physician, medical facility or poison control center for advice. Do not induce vomiting without medical approval.

Note to Physician: Inform the physician that the individual was exposed to a propylene glycol/amorphous silica mixture.

SECTION VII – Accidental Release Measures:**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Caution: This material is a liquid and is slippery on surfaces. Do not leave spills on floors unattended. Immediately clean up small spills. For large spills barricade the spill area until cleanup is complete. Avoid stepping in spilled material.

Contain small spills using appropriate spill containment materials including absorbent paper and cloth towels. For large spills extinguish and remove ignition sources. Contain large spills with appropriate containment barriers. Recover material if possible. Clean up using appropriate absorbent materials (e.g., sand, silica gel, sawdust, absorbent booms and pads). Place or scoop up absorbed material and place into appropriate disposal container.

If spilled material has dried avoid creating airborne dust. Clean up dried material using wet methods. The silica portion of this material is a very small particulate. Do not use a HEPA vacuum unless it is approved for wet surfaces. Where product may become airborne utilize appropriate personal protective equipment. Utilize respiratory protection such as a NIOSH approved air-purifying respirator equipped with filters approved for organic vapors and particulate (P-100), and protective clothing. Prevent the spread of the material. Wet the dried material, scoop up, or mop the material, and place it into closed containers for reuse or disposal. Once material is cleaned up thoroughly rinse contaminated surfaces with water.

If an emergency situation exists, contact spill response personnel.

ENVIRONMENTAL PRECAUTIONS: Prevent spills from spreading by using containment or other appropriate barriers. Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and/or federal regulations. This material is not classified as a hazardous waste and is not regulated under RCRA. Small amounts and cleanup debris can be disposed of as regular waste. For larger amounts keep in suitable closed containers for disposal. Soak up with inert absorbent materials.

SECTION VIII – Precautions for Safe Handling and Use:**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

When not in use, store in tightly closed containers in a dry, cool area. Use only with adequate ventilation that keeps dust/mist and vapor levels below the permissible exposure limit (PEL). Keep floors clean and dry. Handle so as not to create airborne dust. Avoid breathing dust. Utilize appropriate NIOSH-approved respirator if there are airborne vapor and/or dust exposures.

Empty containers may retain hazardous properties. Follow all MSDS/label warnings even when containers are empty. Do not use empty containers for personal use. Any use of this product in elevated temperatures (<180°F) should be thoroughly evaluated to establish and maintain safe operating conditions.

Handle with care. Avoid unnecessary eye and prolonged skin contact. Wash thoroughly after handling. Keep this and all chemicals out of reach of children.

PRECAUTIONS TO BE USED DURING REPAIR AND MAINTENANCE: Not Applicable

GENERAL PRECAUTIONS: Handle material using good personal and industrial hygiene practices. Do not allow material to dry out. Keep work surfaces clean. Work on newspaper or paper towels for easy cleanup. Clean surfaces with wet sponge, rinsing frequently. Wash exposed skin thoroughly after using the product.

SECTION IX – Control Measures:**VENTILATION:**

Local Exhaust: If necessary, use enclosures with local exhaust ventilation to keep exposures below PELs.

Mechanical: If necessary to keep airborne chemical exposures below PELs. Recommended for confined areas and when handling dry material.

Special: See warning in Precautions section above.

RESPIRATORY PROTECTION (Specify Type): No special respiratory protection is recommended under anticipated conditions of normal use with adequate ventilation. A respiratory protection program that meets OSHA's 29 CFR 1910.134 or ANSI Z88.2 requirements must be followed whenever workplace conditions warrant respirator use.

Where exposure above the OSHA PEL is likely, utilize a NIOSH approved half-mask or full-facepiece air-purifying respirator (APR) equipped with filters approved for organic vapors and particulate. Warning: APRs do not protect workers in oxygen deficient atmospheres.

PROTECTIVE GLOVES: Wear appropriate chemical resistant gloves (e.g., Neoprene). Where use can result in skin contact, practice good personal hygiene. The equipment must be cleaned thoroughly after each use.

EYE PROTECTION: Use splash goggles when eye contact due to splashing or spraying liquid is possible. Use safety glasses with side shields or goggles during normal. Cover goggles are recommended in dusty areas.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: During normal conditions of use skin protection is needed. Wear normal work clothing including long pants, long-sleeved shirts and foot coverings to prevent direct contact. Launder clothing before reuse. If skin irritation develops contact your facility health and safety professional.

SAFETY STATIONS: Make available in the work area emergency eyewash stations, and washing facilities.

WORK/HYGIENIC PRACTICES: Avoid skin and eye contact. Avoid breathing vapor, dust and mist. Practice good personal hygiene. Do not eat, drink, smoke, or apply cosmetics in work areas. Wash face and hands prior to eating, drinking or other hand-to-mouth activities.

SECTION X – Transportation Data:

DOT Proper Shipping Name: Propylene Glycol

UN Hazard Class: None required

UN Number: None required

DOT Label: None required

SECTION XI – Label Information:**SUBSTANCE IDENTITY:** Hotline Fiber Mold Hardener (CAT # 4850R)**CAUTION:** Avoid generating and breathing vapor and particulate. Keep out of reach of children.**HEALTH HAZARDS:** This product is a central nervous system hazard. May cause dizziness, headache and nausea. This product contains amorphous silica, which is known to cause lung irritation. In particulate form this product is an eye, skin, nose and throat irritant.**ROUTES OF ENTRY:**

Inhalation: YES Skin/Eye Contact: YES Skin Absorption: YES Ingestion: Unlikely

SECTION XII – Generic Label Information:**SUBSTANCE IDENTITY:** Hotline Fiber Mold Hardener (CAT. # 4850R)**HMIS LABEL CODE:****HEALTH HAZARDS:**

Toxic	<u> X </u>	Corrosive	<u> </u>
Highly Toxic	<u> </u>	Sensitizer	<u> </u>
Irritant	<u> X </u>	Carcinogen	<u> </u>

Health = 1
 Flammability = 1
 Reactivity = 0
 Personal Protection = E

IMMEDIATE AND DELAYED TARGET ORGAN EFFECTS:

Cutaneous Hazard (Skin Damage)	<u> X </u>	Eye Hazard	<u> X </u>	Pulmonary Disfunction (Lung Damage)	<u> X </u>
Neurotoxin (Nervous Sys. Damage)	<u> X </u>	Nephrotoxin (Kidney Damage)	<u> X </u>	Hepatotoxin (Liver Damage)	<u> </u>
Reproductive Toxin (Birth Defect, Sterility)	<u> </u>	Hematopoietic (Blood Sys. Damage)	<u> </u>		

ROUTES OF ENTRY:Ingestion: Unlikely Inhalation: X Skin Absorption: No Skin/Eye Contact: X **PHYSICAL HAZARDS:**

Combustible Liquid	<u> </u>	Compressed Gas	<u> </u>	Explosive	<u> </u>
Flammable Gas	<u> </u>	Flammable Liquid/Solid	<u> </u>	Organic Peroxide	<u> </u>
Oxidizer	<u> </u>	Pyrophoric	<u> </u>	Unstable (Reactive)	<u> </u>
Water reactive	<u> </u>				

SECTION XIII – Disclaimer:

Creative Craftsmen Co. Inc. expressly disclaims all expressed or implied warranties for merchantability and fitness for a particular purpose, with respect to the product or information provided herein.

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END OF MSDS