

**H3 HARDENER**

**1. Product And Company Identification**

**Supplier**

Forbo Siegling, LLC  
12201 Vanstory Dr.  
Huntersville, NC 28078-8395

Company Contact: Mr. Jay Leighton  
Telephone Number: 704-948-0800

**Supplier Emergency Contacts & Phone Number**

CHEMTREC: (800) 424-9300

Issue Date: 03/19/2007

Product Name: H3 HARDENER  
CAS Number: Not Avail.  
Chemical Formula: Mixture  
MSDS Number: 831

**2. Composition/Information On Ingredients**

Ingredient Name	CAS Number	Percent Of Total Weight
DIMETHYL, METHYLHYDROGEN SILOXANE	Not Avail.	34
DIMETHYLVINYLATED SILICA	68988-89-6	21
TITANIUM DIOXIDE	13463-67-7	3
TRIMETHYLATED SILICA	68909-20-6	21

**EMERGENCY OVERVIEW**

Harmful if inhaled or swallowed. CONTACT YOUR LOCAL POISON CONTROL CENTER IF SWALLOWED!  
Contact with eyes or skin causes irritation. Fire may produce irritating and poisonous gases.

**Hazards Identification (Pictograms)**



**3. Hazards Identification**

**Eye Hazards**

May cause eye irritation upon contact and at excessive vapor concentrations.

**Skin Hazards**

Repeated prolonged contact may cause dermatitis. Extended contact may cause reddening and irritation.

**Ingestion Hazards**

May cause vomiting, headache, nausea, dizziness, and irritation of mucous membranes.

**Inhalation Hazards**

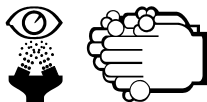
Inhalation may cause upper respiratory irritation, headache, nausea, dizziness, irritation of mucous membranes.

**Conditions Aggravated By Overexposure**

Potential effects of overexposure are based upon extrapolation of health effects for pure product ingredients. Little or no injury is expected to occur with utilization of good personal hygiene practices and relatively short exposure of less than eight hours.

## H3 HARDENER

### First Aid (Pictograms)



### 4. First Aid Measures

#### Eye

If contact occurs, flush eyes with water for 15 minutes; get medical attention.

#### Skin

Wash skin with soap/water. Seek medical attention if irritation or dermatitis develops. Moisturizing creams may be used as an aid to prevent drying & cracking of skin.

#### Ingestion

CALL YOUR LOCAL POISON CONTROL CENTER IMMEDIATELY FOR ADVICE. Keep victim calm. Administer CPR if necessary, taking caution not to become contaminated while administering artificial respiration. ONLY TRAINED, QUALIFIED PERSONNEL SHOULD ATTEMPT ABOVE PROCEDURES.

Give large amounts of water and induce vomiting only if victim is conscious. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS VICTIM!

#### Inhalation

Remove inhalation victim to fresh air, give CPR or artificial respiration if breathing stops. Consult physician.

### 5. Fire Fighting Measures

**Flash Point:** >220 °F >100 °C

**Flash Point Method:** Closed Cup

**Lower Explosive Limit:** Unknown.

**Upper Explosive Limit:** Unknown.

#### Extinguishing Media

Carbon dioxide, AFFF/ATC Foam, alcohol-type foam, dry chemical. Water may be ineffective; however, use water to cool fire exposed containers.

#### Fire Fighting Instructions

Self contained breathing apparatus and fire fighting protective gear should be worn when fighting fires. Water may be ineffective and may spread liquid; however, water fog may be used to cool fire exposed containers. Move containers away from fire area if this can be done without risk. Fire-exposed containers may explode.

### 6. Accidental Release Measures

1. Remove/extinguish all ignition sources such as open flames.
2. Ventilate area of spill or leak.
3. For small quantities absorb on paper towels or similar material. Allow to evaporate in a safe place such as a fume hood. Never dispose of with trash since spontaneous combustion may occur!
4. Large quantity: dike area with suitable absorbent such as vermiculite or kitty litter to prevent spread of material. If available use alcohol type foam to cover spill in order to prevent ignition. Do not allow material to enter confined areas such as pits or sewers since vapors may form explosive mixture with air. Use more absorbent material to soak up material and place in drums or other containers for disposal.

NOTE: ALWAYS WEAR PROTECTIVE EQUIPMENT SUCH AS ORGANIC VAPOR RESPIRATOR, GLOVES AND EYE PROTECTION WHEN HANDLING CONTAMINATED MATERIALS!

### 7. Handling And Storage

#### Handling And Storage Precautions

Store below 90°F/32°C. Store away from ignition sources. Keep containers closed when not in use. Store in a flammable storage cabinet, if available.

## H3 HARDENER

### Protective Clothing (Pictograms)



### 8. Exposure Controls/Personal Protection

#### Engineering Controls

General ventilation is normally sufficient. If large quantities are used, local exhaust ventilation should be used.

#### Eye/Face Protection

Use safety glasses, goggles or face shield to prevent accidental eye contact.

#### Skin Protection

Rubber gloves recommended.

#### Respiratory Protection

Respiratory protection should not be necessary under normal conditions of anticipated use in small quantities.

#### Ingredient(s) - Exposure Limits

DIMETHYL, METHYLHYDROGEN SILOXANE

No Exposure Limits Established by ACGIH or OSHA

DIMETHYLVINYLATED SILICA

DOW CORNING GUIDE: CEILING 5 MG/M3

TITANIUM DIOXIDE

ACGIH TLV-TWA: 10 mg/m3

OSHA PEL-TWA: 15 mg/m3

TRIMETHYLATED SILICA

DOW CORNING GUIDE: CEILING, 5 MG/M3

### 9. Physical And Chemical Properties

#### Appearance

A white viscous liquid.

#### Odor

Very little odor.

**Chemical Type:** Mixture

**Specific Gravity:** 1.14

**Percent Volatiles:** < 5%

**Solubility:** < 0.1

### 10. Stability And Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will Not Occur

#### Conditions To Avoid (Stability)

Water, alcohols, acidic or basic materials, and many metals or metallic compounds, when in contact with product, liberate flammable hydrogen gas, which can form explosive mixtures in the air.

#### Incompatible Materials

Contact with oxidizers may cause fire.

#### Hazardous Decomposition Products

May emit silicon dioxide, carbon dioxide, and traces of incompletely burned carbon products. If heated above 300F/149C traces of formaldehyde (carcinogen) may form.

## H3 HARDENER

### 10. Stability And Reactivity - Continued

#### Conditions To Avoid (Polymerization)

None known

### 11. Toxicological Information

#### Chronic/Carcinogenicity

IARC classifies powdered, pigment-grade titanium dioxide as a Group 2B substance - possibly carcinogenic in humans.. Based on the physical form of this product, IARC's classification is not expected to be relevant to this product.

#### Ingredient(s) - Carcinogenicity

TITANIUM DIOXIDE  
Listed In The IARC Monographs

### 12. Ecological Information

#### Other Environmental Information

None of the ingredients in this product are subject to reporting under SARA Title III, Section 313, Toxic Chemical Release reporting requirements.

### 13. Disposal Considerations

Reclaim material whenever possible

Dispose waste according to federal, state and local government regulations.

Do not dispose in sewers or waterways.

### 14. Transport Information

#### Proper Shipping Name

None Required

Not regulated under DOT 49 CFR 172 as a hazardous material.

Product shipped in glass bottles (5g) within expanded plastic boxes.

### 15. Regulatory Information

#### SARA Hazard Classes

Acute Health Hazard  
Chronic Health Hazard

#### State Regulations

"Universal" Labeling:

CONTENTS	
Titanium Dioxide	13463-67-7
Dimethyl methylhydrogen siloxane	
Dimethylvinylated silica	68988-89-6
Trimethylated silica	68909-20-6

#### Ingredient(s) - State Regulations

TITANIUM DIOXIDE  
New Jersey - Workplace Hazard  
Pennsylvania - Workplace Hazard  
New York City - Hazardous Substance

### 16. Other Information

No Data Available...

## H3 HARDENER

### 16. Other Information - Continued

#### HMIS Rating

Health: 1

Fire: 0

Reactivity: 0

Personal Protection: B

#### Revision/Preparer Information

This MSDS Supersedes A Previous MSDS Dated: 11/19/2003

#### Reference Documentation

The Information Contained in This Document Was Derived From The Following Sources:

- (1) Dow Corning Material Safety Data Sheet for Silastic(R) E RTV Silicone Rubber, Revised April 21, 1992. Dow Corning Corp. Midland MI. Note: (R) indicates Registered or Trademark of Dow Corning Corp.
- (2) Guide to Occupational Exposure Values - 2006, ACGIH.
- (3) 29 CFR 1910 OSHA General industry standards 1910.1000 et.seq.
- (4) NIOSH Registry of Toxic Effects of Chemical Substances (RTECS)

#### Other Information

Glossary -

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ACGIH = American Conference of Governmental Industrial Hygienists

API = American Petroleum Institute

DOT = U.S. Department of Transportation

EPA = U.S. Environmental Protection Agency

IARC = International Agency For Research On Cancer

MSHA = Mine Safety and Health Administration

NFPA = National Fire Protection Association

NIOSH = National Institute of Occupational Safety and Health

NTP = National Toxicology Program

OSHA = U.S. Occupational Safety & Health Administration

PEL = Permissible Exposure Limit (OSHA)

REL = Recommended Exposure Limit (NIOSH)

STEL = Short-Term Exposure Limit

TLV = Threshold Limit Value (ACGIH)

TWA = Time Weighted Average (8 hr.)

WHMIS = Canadian Workplace Hazardous Materials Information System

AP = approximately < = Less than > = Greater than

N/A = Not Applicable NE = Not Established ND = Not Determined

#### Disclaimer

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Siegling America, Inc.