

K12 CEMENT

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: 02/01/2007

Product Name: K12 CEMENT

CAS Number: Not Avail.

Chemical Family: Silicone

Chemical Formula: Mixture

MSDS Number: 431

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
1,2-DIMETHOXYETHANE	110-71-4	0.4
DIMETHYL SILOXANE	68083-19-2	59.7
DIMETHYLVINYLATED SILICA	68988-89-6	7
TITANIUM DIOXIDE	13463-67-7	3
TRIMETHYLATED SILICA	68909-20-6	27.9
XYLENE	1330-20-7	0.2

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. See Siegling MSDS before use.

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.

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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 MEDICAL 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: >212 °F >100 °C

Extinguishing Media

Carbon dioxide, AFFF/ATC Foam, alcohol-type foam, dry chemical. Water may be ineffective; however, may be used 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 deg F/32C. Store away from ignition sources. Keep containers closed when not in use. Store in a flammable storage cabinet, if available.

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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 with side shields, 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

DIMETHYLVINYLATED SILICA

Dow Corning Guide: 5 mg/m³ ceiling

TITANIUM DIOXIDE

ACGIH TLV-TWA: 10 mg/m³

OSHA PEL-TWA: 15 mg/m³ (total dust)

TRIMETHYLATED SILICA

Dow Corning guide: 5 mg/m³ Ceiling

XYLENE

ACGIH TLV-TWA: 100 ppm

ACGIH TLV-STEL: 150 ppm

OSHA PEL-TWA 100 ppm

9. Physical And Chemical Properties

Appearance

Clear viscous liquid.

Odor

Very little odor.

Chemical Type: Mixture

Boiling Point: 284 °F 140 °C

Specific Gravity: 0.99

Percent Volatiles: < 5%

Solubility: < 0.1

Viscosity: 33000 mPas @ 20C (68 deg F)

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will Not Occur

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.

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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.

Miscellaneous Toxicological Information

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

Ingredient(s) - Carcinogenicity

TITANIUM DIOXIDE

Listed In The IARC Monographs

12. Ecological Information

Water hazard class 1 (German regulation): slightly hazardous for water. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.

13. Disposal Considerations

Reclaim material whenever possible. Dispose according to federal, state and local 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 (50g) within expanded plastic boxes.

15. Regulatory Information

SARA Hazard Classes

Acute Health Hazard

Chronic Health Hazard

Fire Hazard

SARA Title III - Section 313 Supplier Notification

This product contains the following toxic chemicals that are subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372.

1,2-DIMETHOXYETHANE (110-71-4) 0.4 %

XYLENE (MIXED ISOMERS) (1330-20-7) 0.2 %

This information must be included on all MSDSs that are copied and distributed for this material.

Ingredient(s) - U.S. Regulatory Information

1,2-DIMETHOXYETHANE

SARA Title III - Section 313 Form "R"/TRI Reportable Chemical

XYLENE

SARA Title III - Section 313 Form "R"/TRI Reportable Chemical

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15. Regulatory Information - Continued

State Regulations

"Universal" Labeling:

Titanium Dioxide	13463-67-7
Xylene	1330-20-7
1,2-Dimethoxyethane	110-71-4
2-Ethyl-1-hexanol	104-70-7
Chloroplatinic acid	16941-12-1
Dimethyl siloxane	68083-19-2
Dimethylvinylated silica	68988-89-6
Trimethylated silica	68909-20-6
Platinum complex	

Ingredient(s) - State Regulations

1,2-DIMETHOXYETHANE

- New Jersey - Workplace Hazard
- New Jersey - Environmental Hazard
- Pennsylvania - Workplace Hazard
- Massachusetts - Hazardous Substance
- New York City - Hazardous Substance

TITANIUM DIOXIDE

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

XYLENE

- New Jersey - Workplace Hazard
- New Jersey - Environmental Hazard
- New Jersey - Special Hazard
- Pennsylvania - Workplace Hazard
- Pennsylvania - Environmental Hazard
- Massachusetts - Hazardous Substance
- New York City - Hazardous Substance

Ingredient(s) - Canadian Regulatory Information

XYLENE

WHMIS - Ingredient Disclosure List

16. Other Information

NFPA Rating

Health: 0

Fire: 1

Reactivity: 0

HMIS Rating

Health: 1

Fire: 1

Reactivity: 0

Personal Protection: B

Revision/Preparer Information

This MSDS Supersedes A Previous MSDS Dated: 11/18/2003

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-Curing Agent, revised

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16. Other Information - Continued

Reference Documentation - Continued

April 21, 1992. Dow Corning Corp. Midland, MI. Note: (R) indicates Registered or Trademark of Dow Corning Corp.

(2) Guide to Occupational Exposure Value 2006, ACGIH

(3) 29 CFR 1910 OSHA General industry standards 1910.1000 et.seq.

(4) NIOSH Registry of Toxic Effects of Chemical Substances (RTECS), U.S. Dept. of HEW.

Other Information

Glossary -

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

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

Siegling America, Inc.