






Material Safety Data Sheet # 330

Hercules Chemical Company Inc.
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NFPA	HMIS	PPE	Transport Symbol						
	<table><tr><td>Health Hazard</td><td>2</td></tr><tr><td>Fire Hazard</td><td>0</td></tr><tr><td>Reactivity</td><td>0</td></tr></table>	Health Hazard	2	Fire Hazard	0	Reactivity	0	 	
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Fire Hazard	0								
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Issuing Date 26-Jul-2006

Revision Date 4/12/2011

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Hercules furnace cement - clean 'n friendly formulation

Recommended Use Cement

Supplier Address

Hercules Chemical Company, Inc.
111 South St.
Passaic, NJ 07055
TEL: 973-778-5000

Company Emergency Phone Number 1-800-221-9330

Emergency Telephone Number Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

WARNING!

Emergency Overview

Harmful if swallowed

Irritating to skin.

Severe eye irritation.

Product dust may be irritating to eyes, skin and respiratory system.

Appearance Tan

Physical State Paste

Odor Odorless

Potential Health Effects

Principle Routes of Exposure Ingestion, Skin contact.

Acute Toxicity

Eyes
Skin

Risk of serious damage to eyes.
Skin corrosion/irritation.

Inhalation	Not an expected route of exposure.
Ingestion	Harmful if swallowed. Can burn mouth, throat, and stomach.
Chronic Effects	Prolonged exposure may cause chronic effects. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. This product does not contain crystalline silica (quartz).
Aggravated Medical Conditions	Skin disorders.
Environmental Hazard	See Section 12 for additional Ecological information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Sodium silicate	1344-09-8	30-60
Kaolinite, Hydrous Aluminum Silicate	1332-58-7	10-30
Wollastonite (Ca(SiO ₃))	13983-17-0	5-10
Mica	12001-26-2	1-5
Nepheline Syenite	37244-96-5	10-30
Microspheres	68131-74-8	0-3

4. FIRST AID MEASURES

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
Skin Contact	Wash skin with soap and water
Inhalation	Not expected.
Ingestion	Clean mouth with water and afterwards drink plenty of water
Notes to Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable
Flash Point	Not applicable
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Explosion Data	
Sensitivity to mechanical impact	None
Sensitivity to static discharge	None

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA	Health Hazard 2	Flammability 0	Stability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 2	Flammability 0	Stability 0	Personal Precautions B

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Avoid contact with the skin and the eyes.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Take up mechanically and collect in suitable container for disposal

7. HANDLING AND STORAGE

Handling	Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product.
Storage	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Kaolinite, Hydrous Aluminum Silicate	TWA: 2 mg/m ³	TWA: 10 mg/m ³	
Mica	TWA: 3 mg/m ³	TWA: 3 mg/m ³	1500 mg/m ³ containing <1% quartz
Nepheline Syenite	TWA: 3 mg/m ³ (Respirable)	TWA: 5 mg/m ³ (Respirable)	

NIOSH IDLH: Immediately Dangerous to Life or Health

Engineering Measures	Showers Eyewash stations Ventilation systems
Personal Protective Equipment	
Eye/face Protection	Tightly fitting safety goggles.
Skin and body protection	Wear protective gloves/clothing.
Respiratory Protection	Not applicable.
Hygiene Measures	Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Tan	Odor	Odorless
Physical State	Paste	pH	11-13.5
Flash Point	Not applicable	Autoignition Temperature	Not applicable
Boiling Point/Range	No data available	Melting Point/Range	No data available
Flammability Limits in Air	No data available	Water Solubility	Miscible with water
Specific Gravity	1.95 +/- 0.03	VOC Content	Not applicable
Solubility	No data available		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
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Conditions to Avoid	None known.
Incompatible Products	Amines. Acids.
Hazardous Decomposition Products	None known.
Hazardous Polymerization	Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium silicate	1153 mg/kg (Rat)		

Subchronic Toxicity (28 days)

Chronic Toxicity

Chronic Toxicity Prolonged exposure may cause chronic effects. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. This product does not contain crystalline silica (quartz).

Carcinogenicity There are no known carcinogenic chemicals in this product.

Mutagenicity

Reproductive Toxicity This product does not contain any known or suspected reproductive hazards.

Target Organ Effects Eyes, Skin.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Sodium silicate				EC50 = 216 mg/L 96 h

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method	Dispose of in accordance with local regulations.
Contaminated Packaging	Dispose of in accordance with local regulations
US EPA Waste Number	D002

14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated

15. REGULATORY INFORMATION**International Inventories**

TSCA	Complies
DSL	Complies
EINECS/ELINCS	Does not Comply
ENCS	Does not Comply
CHINA	Complies
KECL	Does not Comply
PICCS	Does not Comply
AICS	Does not Comply

U.S. Federal Regulations**SARA 311/312 Hazard Categories**

Acute Health Hazard

Chronic Health Hazard

Fire Hazard

Sudden Release of Pressure Hazard

Reactive Hazard

U.S. State Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania
Mica	X	X	X
Chlorite-group minerals		X	
Quartz	X	X	X

International Regulations

Mexico - Grade Slight risk, Grade 1

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

D2B Toxic materials

**16. OTHER INFORMATION**

Issuing Date 26-Jul-2006

Revision Date NOT AUTHORIZED

Revision Note No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS

