






# Material Safety Data Sheet # 320

Hercules Chemical Company Inc.  
111 South Street  
Passaic NJ 07055-7398  
Information Telephone: 1-800 221-9330  
Internet: www.herchem.com

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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Issuing Date 26-Jul-2006

Revision Date 4-Aug-2009

Revision Number 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Hercules Furnace Cement-Clean 'n Friendly Formulation - Heavy Body

**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** Dark Gray/Black

**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  
Ingestion**

Not an expected route of exposure.  
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 <sub>3</sub> ))	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

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

## 7. HANDLING AND STORAGE

<b>Handling</b>	Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.
<b>Storage</b>	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 <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	
Mica	TWA: 3 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	1500 mg/m <sup>3</sup> containing <1% quartz
Nepheline Syenite	TWA: 3 mg/m <sup>3</sup> (Respirable)	TWA: 5 mg/m <sup>3</sup> (Respirable)	

NIOSH IDLH: Immediately Dangerous to Life or Health

<b>Engineering Measures</b>	Showers Eyewash stations Ventilation systems
<b>Personal Protective Equipment</b>	
<b>Eye/face Protection</b>	Tightly fitting safety goggles.
<b>Skin and body protection</b>	Wear protective gloves/clothing.
<b>Respiratory Protection</b>	Not applicable.

<b>Hygiene Measures</b>	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.
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Dark Gray/Black	<b>Odor</b>	Odorless
<b>Physical State</b>	Paste	<b>pH</b>	11-13.5
<b>Flash Point</b>	Not applicable	<b>Autoignition Temperature</b>	Not applicable
<b>Boiling Point/Range</b>	No data available	<b>Melting Point/Range</b>	No data available
<b>Flammability Limits in Air</b>	No data available	<b>Specific Gravity</b>	No data available
<b>Specific Gravity</b>	1.95 +/- 0.03 (H2O = 1)	<b>Solubility</b>	No data available
<b>Water Solubility</b>	Miscible with water		
<b>VOC Content</b>	Not applicable		

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	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

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**13. DISPOSAL CONSIDERATIONS**

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

**14. TRANSPORT INFORMATION**

<b><u>DOT</u></b>	Not regulated
<b><u>TDG</u></b>	Not regulated
<b><u>MEX</u></b>	Not regulated
<b><u>ICAO</u></b>	Not regulated
<b><u>IATA</u></b>	Not regulated
<b><u>IMDG/IMO</u></b>	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 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**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**