

Material Safety Data Sheet

May be used to comply with
 OSHA's Hazard Communication Standard,
 29 CFR 1910.1200 Standard must be
 consulted for specific requirements.

U.S. DEPARTMENT of Labor

Occupational Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072

IDENTITY (As Used on Label and List)

Code 618
 Stove Lining

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name

RUTLAND PRODUCTS

Emergency Telephone Number

CHEMTREC 800-424-9300

Address (Number, Street, City, State, and Zip Code)

7 CRAB TREE ROAD
 JACKSONVILLE, IL 62650

Telephone Number Information

217-245-7963

Date Prepared

Jan 1989

Date Revised

Sept. 04

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Chemical Identity	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Sodium borate, decahydrate	01303-96-4	N/A	5mg/m ³		
Silica, quartz	14808-60-7	0.1mg/m ³	0.1mg/m ³	(respirable)	
Hydrous Aluminum Silicate	01332-60-7	N/A	N/A		

HMIS Rating - Health: 2* Flammability: 0 Reactivity: 0

*Denotes Chronic Health Hazard. See Section VI.

Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	0.7 (nominal bulk density)
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (Air = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A

Solubility in Water

Partially soluble

Appearance and Odor

White powder, no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	N/A	Flammable Limits	LEL	UEL
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Extinguishing Media

N/A

Special Fire Fighting Procedures

N/A

Unusual Fire and Explosion Hazards

N/A

The information presented herein is based either on data or opinion. Such data is, to the best of our knowledge, true and accurate. Such opinion is believed to be expert, and therefore generally reliable, but in some instances there are conflicts in expert opinion and in these instances we have relied on the opinion which, in our best judgment, appeared the most reasonable. All information herein is presented without guarantee or warranty and Rutland Products disclaims any liability incurred from the use thereof.

Section V - Reactivity Data

Stability	Unstable	X	Conditions to Avoid
	Stable		

Incompatibility (Materials to Avoid)

None known.

Hazardous Decomposition or Byproducts

None known.

Hazardous Polymerization	May Occur		Conditions to Avoid None known
	Will Not Occur	X	

Section VI - Health Hazard Data

Route(s) of Entry	Inhalation?	Skin?	Ingestion?
	Yes	Yes	No

Health Hazards (*Acute and Chronic*)

Repeated inhalation of respirable quartz may cause delayed lung injury. Can cause skin irritation and chronic dermatitis. Can cause eye irritation. Can produce severe symptoms if swallowed.

Carcinogenicity	NTP?	No	IARC Monographs?	OSHA Regulated?	No
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Respirable silica from occupational sources is listed by IARC as a human carcinogen.

Signs and Symptoms of Exposure If swallowed: can cause nausea, vomiting, diarrhea, weakness, headaches, skin rashes. If inhaled or on skin or in eyes, can cause irritation.

Medical Conditions Generally Aggravated by Exposure

Respiratory diseases, skin diseases.

Emergency and First Aid Procedures

Skin: wash off. Eyes: flush with water and call physician. Swallowed: Induce vomiting, call physician. Breathing: remove to fresh air. Get medical attention.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Scoop up.

Waste Disposal Method

Local landfill in accord with local, state and federal regulations.

Precautions to Be Taken in Handling and Storing

Store in dry place. Rotate stock.

Other Precautions

Section VIII - Control Measures

Respiratory Protection (*Specify Type*)

Wear NOISH/MSHA approved dust mask to protect against dust.

Ventilation	Local Exhaust	Special
	Sufficient to keep TLV below limit.	
	Mechanical (<i>General</i>)	Other
	Sufficient to keep TLV below limit.	

Protective Gloves

Wear rubber gloves to avoid skin contact.

Eye Protection

Safety glasses to avoid eye contact.

Other Protective Clothing or Equipment

Apron, impermeable.

Work/Hygienic Practices

Good housekeeping practices.