

section 1 – Preparation / Product Information

manufactured for and supplied by:	telephone no: (330) 798-9300
Harwick Standard Distribution Corporation	date prepared: January 4, 1996
60 South Seiberling Street	preparer: Health, Safety & Environment
P.O. Box 9360	product use: Rubber Additive
Akron, OH 44305-0360	

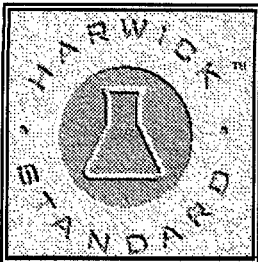
section 2 – Ingredients / Identity Information

components chemical identity/cas#	exposure limits			toxicity LD50/LC50	amount %
	PEL	TLV	OTHER		
Silicon dioxide (SiO ₂) CAS #69012-64-2	80mg/m ³ % SiO ₂	**2mg/m ³			90-100
Magnesium Oxide (MgO) CAS #1309-48-4 **PEL for respirable dust.	15mg/m ³ **5mg/m ³	10mg/m ³			0.1-5
Iron Oxide (Fe ₂ O ₃) CAS #1309-37-1	10mg/m ³	5mg/m ³			0.1-5
Carbon (total) (C) CAS #7440-44-0	3.5mg/m ³	3.5mg/m ³			1-5
Calcium Oxide (CaO) CAS #1305-78-8	5mg/m ³	2mg/m ³			1-5

section 3 – Physical / Chemical Characteristics

boiling point:	Not Applicable	specific gravity:	2.2-2.5
freezing point:	2300°C	pH:	Not Applicable

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vapor pressure (mm Hg):	Not Applicable	odor threshold (ppm):	Not Applicable
vapor density (AIR=1):	Not Applicable	coef. water/oil dist.:	Not Applicable
solubility in water	Insoluble	evaporation rate:	Not Applicable
appearance (physical state) and odor:			Powder; Medium Gray to White Odor; None

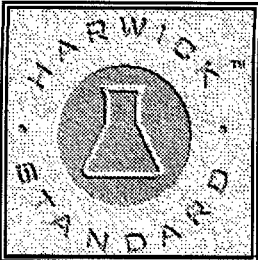
section 4 – Fire and Explosion Hazard Data

flash point (method):	Not Applicable
extinguishing media:	None
special fire fighting procedures:	This dust is non-combustible even when in a dust cloud.
unusual fire and explosion hazards:	None known
hmis rating:	0
hazardous combustion products:	None known

section 5 – Reactivity Data

stability	stable:	<input checked="" type="checkbox"/>
	unstable:	<input type="checkbox"/>
conditions to avoid (cond. of reactivity):	None known	
incompatibility (materials to avoid):	Silica fume is soluble with hydrofluoric acid.	
hazardous decomposition or byproducts:	None known	
hazardous polymerization	may occur:	<input type="checkbox"/>
	will not occur:	<input checked="" type="checkbox"/>
conditions to avoid:	None known	
hmis rating:	0	

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section 6 – Health Hazard Data

primary routes of exposure

inhalation	<input checked="" type="checkbox"/>	skin contact	<input type="checkbox"/>	eye contact	<input checked="" type="checkbox"/>
skin absorption	<input type="checkbox"/>	ingestion	<input checked="" type="checkbox"/>		

health hazards

acute: May cause irritation to the eyes and/or respiratory tract.

chronic: None known

carcinogenicity

NTP **IARC** **OSHA**

signs and symptoms of exposure: Coughing, sneezing, eye irritation.

medical conditions generally aggravated by exposure: None known

hmis rating: 1

section 7 – First Aid Measures

emergency and first aid procedures

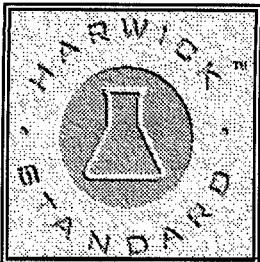
inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

ingestion: Consult a physician.

skin contact: Wash with soap and water. If irritation develops, consult a physician.

eye contact: Flush with water for 15 minutes. If irritation develops, consult a physician.

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section 8 – Precautions for Safe Handling and Use

steps to be taken in case material is released or spilled:

Due to its small particle size, high efficiency industrial vacuum cleaning is recommended to recover spilled material. Place in container for reuse or disposal.

waste disposal method:
Section X.

In accordance with federal, state, and local regulations. Refer to

precautions to be taken in handling and storing:
clothing.

Prevent airborne emissions. Avoid contact with eyes, skin, and

other precautions:
exposure.

Silica fume may cause frying of exposed skin after prolonged

section 9 – Control Measures

respiratory protection (specify type):

A NIOSH/MSHA approved respirator above PEL or TLV.

ventilation

**local exhaust:
mechanical (general):**

Recommended to maintain PEL/TLV.
Recommended to maintain PEL/TLV.

protective gloves:

Impervious

eye protection:

Safety glasses or goggles

other protective clothing or equipment:

Eyewash station

work/hygienic practices:

Wash thoroughly before eating, drinking, or smoking.

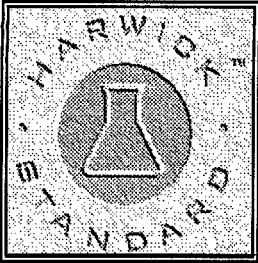
section 10 – Additional Information

special shipping information:

Not Available

TSCA Inventory Status:

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Chemical components are listed on the TSCA inventory.

sara title III

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372:

None known

RCRA status

The following chemical components are listed under (40 CFR 261):

None known

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