



Material Safety Data Sheet
(in compliance with 29 CFR 1910.1200)

Identity: Silica S

Page 1 of 5

section 1 – Preparation / Product Information

manufactured for and supplied by:	telephone no:	(330) 798-9300
Harwick Standard Distribution Corporation	date prepared:	May 5, 2004
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 – Amorphous CAS #69012-64-2	15mg/m ³	**2mg/m ³			80-100
Magnesium Oxide CAS #1309-48-4	15mg/m ³ **5mg/m ³	10mg/m ³			<2
Silicon dioxide Crystalline CAS #14808-60-7	0.05mg/ m ³	**0.05mg/ m ³			<0.05
**PEL for respirable dust.					
Iron Oxide CAS #1309-37-1	10mg/m ³	5mg/m ³			<2
Calcium Oxide CAS #1305-78-8	5mg/m ³	2mg/m ³			<2

section 3 – Physical / Chemical Characteristics

boiling point:	Not Determined	specific gravity:	2.20-2.50
freezing point:	Not Determined	pH:	6.0-9.0
vapor pressure (mm Hg):	Not Determined	odor threshold (ppm):	Not Determined

The information and recommendations contained herein are based upon data that are believed to be accurate and reliable. Application and performance information are provided only as a guide, since the conditions of use are beyond the control of Harwick Standard Distribution Corporation. Consequently, Harwick Standard makes no warranties, express or implied, with respect to the goods or use of the goods or the performance of the goods and makes no warranties of fitness for a particular purpose or merchantability. Buyer acknowledges that Harwick Standard will not be liable for consequential, incidental, direct or special damages arising, directly or indirectly, in respect to such goods or the use or failure thereof, whether based on breach of warranty, negligence, strict liability in tort or otherwise.



Material Safety Data Sheet
(in compliance with 29 CFR 1910.1200)

Identity: Silica S

Page 2 of 5

vapor density (AIR=1): Not Determined
solubility in water Insoluble
appearance (physical state) and odor:

coef. water/oil dist.: Not Determined
evaporation rate: Not Determined
Amorphous sub-micron powder-dust has a tendency to agglomerate; Medium Gray to light gray
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:**
 unstable:

conditions to avoid (cond. of reactivity): None known
incompatibility (materials to avoid): Silica fume is soluble with hydrofluoric acid.
hazardous decomposition or byproducts: Heating at temperatures above 930°F for prolonged time periods will convert amorphous silica to crystalline phases.
hazardous polymerization may occur:
 will not occur:

conditions to avoid: None known

The information and recommendations contained herein are based upon data that are believed to be accurate and reliable. Application and performance information are provided only as a guide, since the conditions of use are beyond the control of Harwick Standard Distribution Corporation. Consequently, Harwick Standard makes no warranties, express or implied, with respect to the goods or use of the goods or the performance of the goods and makes no warranties of fitness for a particular purpose or merchantability. Buyer acknowledges that Harwick Standard will not be liable for consequential, incidental, direct or special damages arising, directly or indirectly, in respect to such goods or the use or failure thereof, whether based on breach of warranty, negligence, strict liability in tort or otherwise.



hmis rating: 0

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 may cause coughing and shortness of breathe.

chronic: Prolonged skin exposure, may cause irritation, drying or abrasions, especially when wet.

carcinogenicity

NTP	<input checked="" type="checkbox"/>	IARC	<input checked="" type="checkbox"/>	OSHA	<input type="checkbox"/>
-----	-------------------------------------	------	-------------------------------------	------	--------------------------

Silica fume is generally considered a nuisance dust of low toxicity. It is possible for silica fume to contain trace amounts (<0.5%) of crystalline silica, which has been shown to cause silicosis, and has been identified by IARC and NTP as a possible human carcinogen.

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.

The information and recommendations contained herein are based upon data that are believed to be accurate and reliable. Application and performance information are provided only as a guide, since the conditions of use are beyond the control of Harwick Standard Distribution Corporation. Consequently, Harwick Standard makes no warranties, express or implied, with respect to the goods or use of the goods or the performance of the goods and makes no warranties of fitness for a particular purpose or merchantability. Buyer acknowledges that Harwick Standard will not be liable for consequential, incidental, direct or special damages arising, directly or indirectly, in respect to such goods or the use or failure thereof, whether based on breach of warranty, negligence, strict liability in tort or otherwise.



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

eye contact: Flush with water for 15 minutes and rinse under the eyelids. If irritation develops, consult a physician.

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 recycling or disposal.

waste disposal method: In accordance with federal, state, and local regulations. Refer to Section 10.

precautions to be taken in handling and storing: Keep containers closed, ambient air temperature, and keep dry. Avoid generating dust. Handling with adequate ventilation for dust.

other precautions: Silica fume may cause frying of exposed skin after prolonged exposure.

section 9 – Control Measures

respiratory protection (specify type): A NIOSH/MSHA approved respirator above PEL or TLV.

ventilation

local exhaust: Recommended to maintain PEL/TLV.
mechanical (general): Recommended to maintain PEL/TLV.

protective gloves: Impervious

eye protection: Safety glasses or goggles with side shields.

other protective clothing or equipment: Eyewash station

work/hygienic practices: Wash thoroughly before eating, drinking, or smoking.

The information and recommendations contained herein are based upon data that are believed to be accurate and reliable. Application and performance information are provided only as a guide, since the conditions of use are beyond the control of Harwick Standard Distribution Corporation. Consequently, Harwick Standard makes no warranties, express or implied, with respect to the goods or use of the goods or the performance of the goods and makes no warranties of fitness for a particular purpose or merchantability. Buyer acknowledges that Harwick Standard will not be liable for consequential, incidental, direct or special damages arising, directly or indirectly, in respect to such goods or the use or failure thereof, whether based on breach of warranty, negligence, strict liability in tort or otherwise.



section 10 – Additional Information

special shipping information: Not DOT Regulated

TSCA Inventory Status:
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

CALIFORNIA PROPOSITION 65
This product may contain (crystalline silica) a chemical know to the State of California to cause cancer.

The information and recommendations contained herein are based upon data that are believed to be accurate and reliable. Application and performance information are provided only as a guide, since the conditions of use are beyond the control of Harwick Standard Distribution Corporation. Consequently, Harwick Standard makes no warranties, express or implied, with respect to the goods or use of the goods or the performance of the goods and makes no warranties of fitness for a particular purpose or merchantability. Buyer acknowledges that Harwick Standard will not be liable for consequential, incidental, direct or special damages arising, directly or indirectly, in respect to such goods or the use or failure thereof, whether based on breach of warranty, negligence, strict liability in tort or otherwise.