

# MATERIAL SAFETY DATA SHEET



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## Tri-Sorb®

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Tri-Sorb®  
**GENERAL USE:** Desiccant

#### MANUFACTURER

Süd-Chemie Performance Packaging  
101 Christine Drive  
Rio Grande Industrial Park  
Belen NM 87002  
**Service Number:** 505-864-6691

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

**CHEMTREC :** (800) 424 - 9300  
**Outside the U.S. Call Collect :** 001 (703) 527-3887

### 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Dehumidifying package, size and type vary.

**IMMEDIATE CONCERNS:** Poses little or no immediate hazard.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Route of exposure unlikely. Rubbing eyes after handling product may cause irritation. Use of proper chemical hygiene should prevent exposure.

**SKIN:** Route of exposure unlikely. Prolonged or repeated contact with package contents may cause irritation.

**INGESTION:** Route of exposure unlikely. Canisters may pose a choking hazard if swallowed.

**INHALATION:** Route of exposure unlikely. Prolonged exposure to high dust concentration may cause lung damage.

**TARGET ORGAN STATEMENT:** Respiratory system.

**CANCER STATEMENT:** This product contains crystalline silica which is known to cause cancer. Prolonged or repeated exposure to respirable dust may cause silicosis. This material is packaged and contained in a pouch, bag or canister that prevent prolonged or repeated inhalation.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS	% BY WEIGHT
Silica (Synthetic, Amorphous)	112945-52-5	35 - 75
Kaolin	1332-58-7	10 - 25
Aluminum oxide	1344-28-1	1 - 10
Sodium oxide	1313-59-3	<2
Silica, quartz	14808-60-7	Trace
Pouch, Bag, Canister, Stopper or Cap		Balance

See Section 8 for Exposure Limits

#### 4. FIRST AID MEASURES

**EYES:** Normally not needed. If irritation develops or persists, seek immediate medical attention.

**SKIN:** Wash with soap and water. Get medical attention if irritation develops or persists.

**INGESTION:** Normally not needed. If whole canisters are ingested, seek medical attention.

**INHALATION:** Normally not needed. If exposed to excessive levels of dust or fumes, remove to fresh air and seek medical attention of cough or other symptoms develop or persist.

#### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** Material is not flammable

**EXTINGUISHING MEDIA:** Use extinguishing agent applicable to surrounding fire.

**FIRE FIGHTING PROCEDURES:** As in any fire, wear self-contained breathing apparatus operated in pressure-demand mode, (NIOSH approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** No special precautions required.

**LARGE SPILL:** Vacuum or sweep up material and place in a disposal container.

**SPECIAL PROTECTIVE EQUIPMENT:** Refer to Section 8, Exposure Control/Personal Protection.

#### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Minimize dust generation and accumulation. Avoid breathing dust. Use with adequate ventilation. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

**STORAGE:** Store in a dry area.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE GUIDELINES**

HAZARDOUS COMPONENTS					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Silica (Synthetic, Amorphous)	<b>TWA</b>	[1]	[1]	[2]	[2]
Kaolin	<b>TWA</b>	[3]	15 mg/m <sup>3</sup> [3]	[4]	2 mg/m <sup>3</sup> [4]
Aluminum oxide	<b>TWA</b>	[5]	15 mg/m <sup>3</sup> [5]	[6]	1 mg/m <sup>3</sup> [6]
Sodium oxide	<b>TWA</b>	[7]	[7]	[7]	[7]
Silica, quartz	<b>TWA</b>	[8]	[8]	[6]	0.05 mg/m <sup>3</sup> [6]
<b>OSHA TABLE COMMENTS:</b> <b>1.</b> (80 mg/m <sup>3</sup> )/(%SiO <sub>2</sub> ) <b>2.</b> TLV® withdrawn <b>3.</b> total dust, 5 mg/m <sup>3</sup> respirable fraction <b>4.</b> respirable fraction <b>5.</b> 5 mg/m <sup>3</sup> respirable <b>6.</b> Respirable (as metal, insoluble compounds) <b>7.</b> Exposure limits not established. <b>8.</b> Total Dust = (30 mg/m <sup>3</sup> )/(%SiO <sub>2</sub> +2)					

**ENGINEERING CONTROLS:** Good general ventilation should be sufficient to control airborne levels.

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** Follow facility guidelines.

**SKIN:** Use of proper hygiene practices in the workplace is recommended.

**RESPIRATORY:** Good general ventilation should be sufficient to control airborne levels.

**COMMENTS:** All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by the Particulates Not Otherwise Regulated (PNOR) limit which is 5 mg/m<sup>3</sup> for respirable fraction and 15 mg/m<sup>3</sup> for total dust. ACGIH exposure guidelines of less than 3 mg/m<sup>3</sup> (respirable) and 10 mg/m<sup>3</sup> (inhalable) have been established for particles (insoluble or poorly soluble) not otherwise specified (PNOS).

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:** Solid

**ODOR:** None

**pH:** Not Determined

**PERCENT VOLATILE:** None

**VAPOR PRESSURE:** Not Applicable

**VAPOR DENSITY:** Not applicable.

**MELTING POINT:** > 1600°C (2900°F)

**SOLUBILITY IN WATER:** Insoluble

**OXIDIZING PROPERTIES:** None

**10. STABILITY AND REACTIVITY****STABLE:** Yes**HAZARDOUS POLYMERIZATION:** No**CONDITIONS TO AVOID:** Minimize dust generation and accumulation.**11. TOXICOLOGICAL INFORMATION****ACUTE**

Chemical Name	ORAL LD <sub>50</sub> (rat)
Silica (Synthetic, Amorphous)	3160 mg/kg (rat)
Aluminum oxide	> 5000 mg/kg (rat)

**CARCINOGENICITY**

Chemical Name	NTP Status	IARC Status	OSHA Status
Silica (Synthetic, Amorphous)	Not listed.	Group 3 - not classifiable	Not listed.
Kaolin	Not listed.	Not listed.	Not listed.
Aluminum oxide	Not listed.	Group 3 - not classifiable	Not listed.
Sodium oxide	Not listed.	Not listed.	Not listed.
Silica, quartz	Known Carcinogen	Group I	Not listed.

**GENERAL COMMENTS:** Carcinogenicity classification due to a very small amount of crystalline silica.**12. ECOLOGICAL INFORMATION****ENVIRONMENTAL DATA:** Low hazard for usual industrial or commercial handling.**CHEMICAL FATE INFORMATION:** This material is of mineral origin. It is not biodegradable.**13. DISPOSAL CONSIDERATIONS****DISPOSAL METHOD:** This product, if discarded as sold, is not a Federal RCRA hazardous waste. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations.

**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Not regulated

**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** No **CHRONIC:** Yes

**313 REPORTABLE INGREDIENTS:** Not listed.

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

**CERCLA REGULATORY:** Not listed.

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA STATUS:** All components are listed on the TSCA Inventory or are excluded or exempt.

**REGULATIONS**

**STATE REGULATIONS** California

**CALIFORNIA PROPOSITION 65:** This product does not contain chemical(s) known to the state of California to cause cancer, birth defects, or reproductive harm.

Crystalline silica present is contained within a pouch, canister or bag. There is no exposure to airborne particles of respirable size under normal conditions of use.

**RCRA STATUS:** This product, if discarded as sold, is not a Federal RCRA hazardous waste. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations.

**CANADA**

**WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):** This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

**CANADA INGREDIENT DISCLOSURE LIST:** Contains component(s) listed on the Canadian Hazardous Products Act Ingredient Disclosure List.

**CANADIAN ENVIRONMENTAL PROTECTION ACT:** All ingredients are listed on the Canadian Domestic Substances List inventory.

**EUROPEAN COMMUNITY****EEC LABEL SYMBOL AND CLASSIFICATION**

Not classified as dangerous

**16. OTHER INFORMATION**

**APPROVED BY:** Prepared and approved by SHE Dept. Sud-Chemie Inc.

**INFORMATION CONTACT:** 502-634-7492

**REVISION SUMMARY:** Revision #: 1. This MSDS replaces the September 07, 2007 MSDS. Any changes in information are as follows: In Section 12: Environmental Data, Ecotoxicological Information

**MANUFACTURER DISCLAIMER:** The information presented herein is believed to be accurate but is not warranted. Recipients are advised to confirm in advance that the information is current, applicable and suitable to their circumstances.