



# Safety Data Sheet

Issuing Date  
26-March-12

Revision Date  
27-September-12

Revision Number  
2

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Dry Precipitated Silica

**Recommended use** Anticaking agents  
Free flow agents  
Carrier  
Thickening agent

**Manufactured by** National Titanium Dioxide Company, Ltd.  
P.O. Box 13586  
Jeddah 21414, Kingdom of Saudi Arabia  
Telephone: +966(0)2-652-9966  
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**Other Information** E-mail contact: cldemille@cristal.com

**Emergency Telephone Number** SGS +966-3-362-21-93 (Al-Jubail)

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

**Appearance**  
White

**Physical State**  
Powder

**Odor**  
Odorless

### Potential Health Effects

#### Acute Toxicity

**Skin** May cause drying of the skin.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** No hazard expected in normal use.

**Eyes** May cause irritation.

#### Chronic Toxicity

**Chronic effects** None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight %
Silica, amorphous, precipitated	112926-00-8	100

**4. FIRST AID MEASURES**

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin contact** Wash off with soap and plenty of water.

**Inhalation** Move to fresh air.

**Ingestion** Clean mouth with water and afterwards drink plenty of water. Get medical attention if symptoms occur.

**5. FIRE-FIGHTING MEASURES**

**Flammable Properties** Not flammable.

**Flash Point** Not applicable.

**Instructions to Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Hazardous Combustion Products** None.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** Use personal protective equipment.

**Methods for Containment** Contain the discharged material. Do not allow product to enter public drainage systems or open water courses. Check with local and state environmental agencies for guidance.

**Methods for Cleaning Up** Clean up promptly by sweeping or vacuum.

**7. HANDLING AND STORAGE**

**Handling** Handle in accordance with good industrial hygiene and safety practice.

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Chemical Name	ACGIH TLV	OSHA PEL
Silica, amorphous, precipitated 112926-00-8		(vacated) TWA: 6 mg/m <sup>3</sup>

**Engineering measures** Showers.  
Eyewash stations.  
Ventilation systems.

**Personal Protective Equipment**

**Eye/Face Protection** Safety glasses with side-shields or goggles.

<b>Skin and Body Protection</b>	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
<b>Respiratory Protection</b>	If exposure limits are exceeded or irritation is experienced, MSHA/NIOSH approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	White	<b>Odor</b>	Odorless
<b>Physical State</b>	Powder	<b>pH</b>	5 - 9
<b>Flash Point</b>	Not applicable	<b>Autoignition Temperature</b>	Not applicable
<b>Boiling Point/Range</b>	Not applicable	<b>Melting Point/Range</b>	~ 1700 °C
		<b>Flammability Limits in Air</b>	Not applicable
<b>Explosion Limits</b>	Not applicable		
<b>Water Solubility</b>	Hardly soluble	<b>Evaporation Rate</b>	Not applicable
<b>Vapor Pressure</b>	Not applicable	<b>Vapor Density</b>	Not applicable
<b>Density</b>	~ 2g/cm <sup>3</sup> (20° C)	<b>VOC Content(%)</b>	None

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under recommended storage conditions.
<b>Incompatible Products</b>	None.
<b>Conditions to avoid</b>	This product is highly absorbant, synthetic silica with an extremely high surface area. If using this silica as a carrier for easy oxidizable liquids, a possibly occurring oxidizing process could be accelerated due to the high surface are of the silica. Therefore a self-ignition of the coated substance could occur.
<b>Hazardous decomposition products</b>	None.
<b>Hazardous Reactions</b>	None.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

**11. TOXICOLOGICAL INFORMATION**

**Acute Toxicity**

**Product information** Refer to the table below.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Silica, amorphous, precipitated	> 10,000 mg/kg (rat)	> 5,000 mg/kg (rabbit)	0.139 mg/l / 4 h (rat) (maximum concentration attainable in experiments) No deaths occurred

<b>Chronic effects</b>	None known.
<b>Carcinogenicity</b>	Not a carcinogen.
<b>Mutagenic effects</b>	None known.

**Reproductive toxicity**                      None known.

**12. ECOLOGICAL INFORMATION**

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Silica, amorphous, precipitated		>10,000 mg/l / 96 h		> 10,000 mg/l / 24 h

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods**                      This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Incineration is the preferred method.

**Contaminated packaging**                      Dispose of in accordance with local regulations.

**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
<b><u>RID</u></b>	Not regulated
<b><u>ADR</u></b>	Not regulated
<b><u>ADN</u></b>	Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

<b>USA (TSCA)</b>	Complies
<b>Canada (DSL)</b>	Complies
<b>European Union (EINECS)</b>	Complies
<b>Japan (ENCS)</b>	Complies
<b>China (IECSC)</b>	Complies
<b>Korea (KECL)</b>	Complies
<b>Philippines (PICCS)</b>	Complies
<b>Australia (AICS)</b>	Complies
<b>New Zealand (NZIoC)</b>	Complies

**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**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactivity Hazard</b>	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).

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

**CERCLA**

This product, 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**

**U.S. State Right-to-Know Regulations**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Silica, amorphous, precipitated	X		X		

**Other International Regulations**

Chemical Name	Carcinogen Status	Exposure Limits
Silica, amorphous, precipitated		Mexico: TWA= 10 mg/m <sup>3</sup>

**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**

Uncontrolled product.

**16. OTHER INFORMATION**

**HMIS Rating**

<b>Health Hazard</b>	1
<b>Flammability Hazard</b>	0

<b>Physical Hazard</b>	0
<b>Revision Date</b>	27-September-12
<b>Reason for revision</b>	Company Logo.

**Disclaimer**

The information provided on this SDS 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 SDS**