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## **MSDS OF SILICON DIOXIDE**

### **1. Product Identification**

**Synonyms:** SILICON DIOXIDE

**Merchandise name:** SILICA GEL

**CAS No.:** 7631-86-9

**REACH REGISTRATION NO:** 01- 2119379499-16-0269

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### **2. Composition/Information on Ingredients**

Ingredient	CAS No	Percent	Hazardous
SILICON DIOXIDE	7631-86-9	99 - 100%	NO.

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### **3. Hazards Identification**

#### **Emergency Overview**

Health Rating: 2 - Moderate

Flammability Rating: 0 - None

Reactivity Rating: 0 - None

Contact Rating: 1 - Slight

Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

#### **Potential Health Effects**

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The most severe health hazards associated with Silica Gel are listed since the exact form of Silica contained in this product is unknown.

#### **Inhalation:**

Irritation of upper respiratory tract, excessive inhalation may cause lung damage, pneumoconiosis, silicosis, cyanosis, coughing, difficult breathing.

#### **Ingestion:**

None identified.

#### **Skin Contact:**

Irritation.

#### **Eye Contact:**

Irritation.



**Chronic Exposure:**

Lung damage, congestion of heart, liver, kidneys, and spleen, alters blood composition.

**Aggravation of Pre-existing Conditions:**

Respiratory system disease.

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## **4. First Aid Measures**

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Prompt action is essential.

**Ingestion:**

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

**Skin Contact:**

In case of contact, flush skin with water.

**Eye Contact:**

In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

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## **5. Fire Fighting Measures**

**Fire:**

Not expected to be a fire hazard.

**Explosion:**

None identified.

**Fire Extinguishing Media:**

Use extinguishing media appropriate for surrounding fire.

**Special Information:**

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

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## **6. Accidental Release Measures**

Wear suitable protective clothing. Carefully sweep up and remove.

Vacuuming or wet sweeping may be used to avoid dust dispersal.

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## **7. Handling and Storage**

Keep container tightly closed. Store in a cool, dry, well-ventilated area away from moisture. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.



## 8. Exposure Controls/Personal Protection

### **Airborne Exposure Limits:**

-OSHA Permissible Exposure Limit (PEL): 6 mg/m<sup>3</sup> (TWA) PEL is for Silica, amorphous, precipitated and gel. -ACGIH Threshold Limit Value (TLV): 10 mg/m<sup>3</sup> (TWA) TLV is for Silica - Amorphous, Silica gel.

### **Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

### **Personal Respirators (NIOSH Approved):**

For conditions of use where exposure to the substance is apparent, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

### **Skin Protection:**

Wear protective gloves and clean body-covering clothing.

### **Eye Protection:**

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

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## 9. Physical and Chemical Properties

**Odor:** Odorless.

**Solubility:** Negligible (<0.1%)

**Specific Gravity:** 2.10

**pH:** No information found.

**% Volatiles by volume @ 21C (70F):** 0

**Boiling Point:** 2230C (4046F)

**Melting Point:** 1610C (2930F)

**Vapor Density (Air=1):** Not applicable.

**Vapor Pressure (mm Hg):** Not applicable.

**Evaporation Rate (BuAc=1):** No information found.

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## 10. Stability and Reactivity

**Stability:**

Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:**

Oxides of silicon.

**Hazardous Polymerization:**

Will not occur.

**Incompatibilities:**

Hydrogen fluoride, strong acids, strong bases.

**Conditions to Avoid:**

Moisture. dusting.

## 11. Toxicological Information

Ingredient	Known	---NTP Carcinogen---		IARC Category
		Anticipated		
Silicon dioxide (7631-86-9)	No	No		None

## 12. Ecological Information

**Environmental Fate:** This product has no bad

No information found.

**Environmental Toxicity:**

No information found.

## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. Transport Information

Not regulated.



### 15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----

Ingredient	TSCA	EC	Japan	Australia
Silicon dioxide	Yes	No	No	Yes

-----\Chemical Inventory Status-Part2\-----

Ingredient	Korea	Canada DSL	NDSL	Phil.
Silicon dioxide	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----

Ingredient	-SARA 302- RQ	TPQ	-----SARA 313----- List	Chemical Catg.
Silicon dioxide	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----

Ingredient	-RCRA- -TSCA-	CERCLA	261.33	8(d)
Silicon dioxide		No	No	No

Chemical Weapons Convention: No    TSCA 12(b): No    CDTA: No  
 SARA 311/312: Acute: Yes    Chronic: Yes    Fire: No    Pressure: No  
 Reactivity: No    (Pure / Solid)

**Chinese Hazchem Code:** No information found.

**Poison Schedule:** No information found.

#### WHMIS:

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.

### 16. Other Information

#### Revision Information:

Pure. New 16 section MSDS format, all sections have been revised.



**Disclaimer:**

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