

## MICRONIZED SILICA

### 1. Chemical product and company identification

<b>A. Product name</b>	MICRONIZED SILICA
<b>B. Recommend uses/ Use coat limit</b>	
Recommend uses	Anti-blocking agent, anti-cake agent, Moisture Scavengers
Use coat limit	
<b>C. Manufacturer / Supplier / Distributor Information</b>	
Distributor	RAR Resin & Chemical Industries
Address	11th Floor, 1 Lake Plaza Jumeirah Lake Towers Dubai UAE
Emergency phone number	+971 4 4356517

### 2. Hazards identification

#### Additional safety information for humans and the environment

Not classified as dangerous products according to Regulation EC(No) 1272/2008 and Directive 67/548/EEC.

#### Allocation label elements

Symbol: Not applicable  
Signal word: Not applicable  
Hazard statements: Not applicable  
Precautionary statements:  
Prevention: Not applicable  
Response: Not applicable  
Storage: Not applicable  
Disposal: Not applicable

### 3. Composition and Information on Ingredients

Chemical Name	Trivia Name and Synonym	CAS Registry Number or Identification Number	Percent (%)
Silicon Dioxide, Silica, Amorphous	SiO <sub>2</sub> , OHS83144, RTECS VV7315000	7631 - 86 - 9	100

### 4. First aid measures

#### A. Eye Contact

Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15minutes. If irritation persists, contact a poison control center, emergency room or physician as further treatment maybe necessary.

#### B. Skin Contact

Run a gentle stream of water over the affected area for 15mins. A mild soap maybe used if available. If any symptoms persists, contact a poison control center, emergency room or physician as further treatment maybe necessary.

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### C. Inhalation

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

### D. Ingestion

Gently wipe or rinse the inside of the mouth with water. Sips of water can be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician for treatment information.

### E. Most important symptom / effects, acute and delayed

#### Inhalation

Effects of short-term exposure

May cause dryness and irritation to mucous membranes

Effects of long-term exposure

May coughing, sore throat and wheezing

#### Skin

Effects of short-term exposure

May cause irritation to skin

Effects of long-term exposure

May cause irritation with dryness and abrasion

#### Eyes

Effects of short-term exposure

May cause irritation Eyes

Effects of long-term exposure

May cause irritation, redness and pain

#### Ingestion

Effects of short-term exposure

Gently wipe or rinse the inside of the mouth with water

Effects of long-term exposure

Emergency room or physician for treatment information

### F. First aid/Attention fact of doctor

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information. Gently wipe or rinse the inside of the mouth with water. Sips of water can be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician for treatment information.

### 5. Fire fighting measures

A. Suitable (and unsuitable) extinguishing media. Not considered to be a fire hazard.

B. Specific hazards arising from the chemical

#### Heat decomposition product

Oxides of carbon and silicon may be formed when heated to decomposition

Strong bases, oxidizers, hydrogen fluoride, fluorine, xenon hexafluoride, oxygen

#### Fire and explosion hazards

Difluoride and chlorine trifluoride. Substance can explode when wet and heated with magnesium.

#### C. Protective Equipment on Fire Suppression and Precautions

Store in a dry area. When transferring material into flammable solvents, use proper grounding to avoid electrical sparks. Product surface alterations caused by calcining or mixing with additives may alter toxicological properties.

### 6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures

Vacuum spilled material and place in closed plastic bags for disposal.

If eye exposure to powder is likely, use tight fitting chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

Boots, aprons or chemical suits should be used when necessary to prevent skin contact.

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## 7. Handling and Storage

A. Safe Handling Not regulated

B. Safe Storage

Store in a dry area. When transferring material into flammable solvents, use proper grounding to avoid electrical sparks. Product surface alterations caused by calcining or mixing additives may alter toxicological properties.

## 8. Exposure controls and personal protection

A. Exposure standard of chemical substance, Biology Exposure Exposure standard etc.

Domestic provision TWA - 10mg/m<sup>3</sup>

ACGIH provisions Not regulated

Biological Exposure standard Not regulated

B. Appropriate Engineering Controls

C. Personal Protection

### Respiratory Protection

Use NIOSH approved dust filter respirator for exposure above permissible exposure limits. The respiratory use limitations made by NIOSH or the manufacturer must be observed. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres

### Eye Protection

If eye exposure to powder is likely, use tight fitting chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

### Hands Protection

Use of gloves

### Body Protection

Boots, aprons or chemical suits should be used when necessary to prevent skin contact.

## 9. Physical and chemical properties

A. Appearance (physical state, colour etc.)	White
B. Odor	Odorless
C. Odor threshold	
D. pH	
E. Melting / Freezing Point	> 1600°C
F. Initial boiling point / freezing point	> 2230°C
G. Flash point	No information found.
H. Evaporation rate	No information found.
I. Flammability (Solid, Liquid)	No information found.
J. Upper / lower flammability or explosive limits	No information found.
K. Vapor pressure	No information found.
L. Solubility	No information found.
M. Vapor density	No information found.
N. Relative density	2.1
O. N-octanol / Water partition coefficient	No information found.
P. Autoignition temperature	No information found.
Q. Decomposition temperature	No information found.
R. Viscosity	No information found.

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## 10. Stability and Reactivity

- A. Chemical Stability** Volatiles by volume @ 21°C(70F): 0
- B. Possibility of Hazard Reactions** Stable.
- C. Conditions to Avoid**  
Strong bases, oxidizers, hydrogen fluoride, fluorine, xenon hexafluoride, oxygen difluoride, and chlorine trifluoride. Substance can explode when wet and heated with magnesium
- D. Substances to Avoid** No information found.
- E. Hazardous Decomposition Products** Oxides of carbon and silicon maybe formed when heated to decomposition.

## 11. Toxicological Information

- A. Information on the Likely Routes of Exposure**  
Inhalation through the respiratory organs

### Chronic:

An epidemiological study was conducted which included 165 precipitated silica workers who had been exposed an average time span of 8.6 years. Of these 165 workers, 44 had been exposed for an average of 18 years. No adverse effects were noted in complete medical examinations (including chest roentgenograms) of these workers. Pulmonary function decrements were corrected only with smoking and age but not with the degree or duration of dust exposure.

### Ingestion through the mouth

Laboratory studies have also been conducted in small animals via inhalation of levels of precipitated silica dust of up to 126 mg/cu.m per periods from six months to two years. Although precipitated silica was temporarily deposited in the animals' lungs, most of the deposited material was cleared soon after the dust exposure ended.

- B. Delayed and immediate, effects and also chronic effects from short and long-term exposure.**

Acute toxicity (including all likely routes of exposure)

### Oral

This product is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, ACGIH or OSHA.

### Skin

Middly irritation.

### Inhalation

Excessive contact with powder can cause drying of mucous membranes of nose, eyes and throat duo to absorption of moisture and oils. This material can also cause nasal and respiratory tract irritation and nosebleed. Eye contact with powder can result in mild irritation.

### Skin corrosiveness / sensitiveness

Excessive contact with powder can cause drying of mucous membranes of nose, eyes and throat duo to absorption of moisture and oils. This material can also cause nasal and respiratory tract irritation and nosebleed. Eye contact with powder can result in mild irritation.

### Respiratory sensitiveness

RAR Resin recommends that persons with breathing problems or lung disease should not work in dusty areas unless a physician approves and certifies their fitness to wear respiratory protection.

### Skin sensitiveness

Dry Skin

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## Carcinogenicity

This product is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, ACGIH or OSHA.

## Germ cell mutagenicity

Medical conditions Aggravates: None Known.

## 12. Ecological Information

### A. Aquatic, Terrestrial Ecological Toxicity

Fish	LC50 500 mg/L 96hr
Algae	EC50 440 mg/L 72hr

### B. Remaining / Resolvability

Remaining characteristic	log Kow 0.53
Resolvability	No information found.

### C. Bioconcentration factor

Biodegradation	BCF 3.162
Biodegradation	BCF 3.162

D. Mobility in Soil	No information found.
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E. Other Adverse Effects	No information found.
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## 13. Disposal consideration

### A. Disposal methods

Waste from this product may be disposed of in sanitary landfill and local regulation permit. Care should be taken to avoid creation of dust during disposal operations.

### B. Disposal considerations

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

## 14. Transport Information

A. UN Number	No information found.
B. UN Proper Shipping Name	No information found.
C. Transport hazard class	No information found.
D. Hazardous Chemicals Rating in Shipment	No information found.
E. Environmental hazards	No information found.
F. Special Safety Measures which a user needs to know in relation to transport or its means	
Type of fire emergency action	No information found.
Type of exposure emergency actions	No information found.

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## 15. Regulatory information

### A. Regulations by Industrial Safety and Health

All components of this product are listed on the Inventory of Existing Chemical Substances in IECSC or otherwise exempt

### B. Regulations by Toxic Chemicals Control

No information found.

### C. Regulations by Hazards Safety Control

No information found.

### D. Regulations by Wastes Control

No information found.

### E. Regulations by Other Domestic and International Law

No information found.

## 16. Other Information

### A. Reference

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and MSDS contains all of the information required by the CPR.

### B. Date of the first preparation:

1997-03-05

### C. Number of revision and the final revised date

Number of revision

6

The final revised date

2011-12-19

### D. Other

No information found.

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