



Silica Sand or Ground Silica

SECTION 1. IDENTIFICATION

Product Identifier Silica Sand or Ground Silica

Other Means of Identification Alpha Quartz, Crystallized silicon dioxide, Quartz silica

Product Code(s) SA1240, SI2330, SI2335

Product Family Inorganic Solid Recommended Use Industrial.

Restrictions on Use None known.

Supplier Identifier Alphachem Limited, 2485 Milltower Court, Mississauga, Ontario, L5N 5Z6, (905) 821-2995

Emergency Phone No. Infotrac, 1-800-535-5053, 24 Hours

SDS No. 0290

SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

Classification

Carcinogenicity - Category 1; Specific target organ toxicity (repeated exposure) - Category 1

Label Elements



Signal Word:

Danger

Hazard Statement(s):

Causes damage to organs (lungs) through prolonged or repeated exposure.

May cause cancer if inhaled.

Precautionary Statement(s):

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust.

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

Other Hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substance:

| Chemical Name | CAS No. | % | Other Identifiers |
|----------------|------------|-----|---|
| Silica, quartz | 14808-60-7 | >99 | Alpha Quartz, Crystallized silicon dioxide, Quartz silica |

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. If exposed or concerned, get medical advice or attention.

Skin Contact

Rinse with lukewarm, gently flowing water for 5 minutes.

Eve Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

If exposed or concerned, get medical advice or attention.

First-aid Comments

Some of the first-aid procedures recommended here require advanced first-aid training. If exposed or concerned, get medical advice or attention.

Most Important Symptoms and Effects, Acute and Delayed

If inhaled: can cause lung injury.

Immediate Medical Attention and Special Treatment

Special Instructions

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

Does not burn.

None known.

Special Protective Equipment and Precautions for Fire-fighters

Evacuate area. Approach fire from upwind to avoid hazardous vapours or gases. Do NOT apply water directly to spill. Dike and recover contaminated water for appropriate disposal.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Remove or isolate incompatible materials as well as other hazardous materials.

Environmental Precautions

No special precautions are necessary.

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Methods and Materials for Containment and Cleaning Up

Avoid dry sweeping. If necessary, use a dust suppressant such as water. Do not use compressed air for clean-up. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Obtain special instructions before use. Wear personal protective equipment to avoid direct contact with this chemical. Only use where there is adequate ventilation. Immediately report leaks, spills or failures of the safety equipment (e.g. ventilation system). Avoid generating dusts. Prevent accidental contact with incompatible chemicals. Keep containers tightly closed when not in use or empty.

Conditions for Safe Storage

Store in an area that is: separate from incompatible materials (see Section 10: Stability and Reactivity). Keep amount in storage to a minimum. Restrict access to authorized personnel only. Store in the original, labelled, shipping container. Store in a closed container. Comply with all applicable health and safety regulations, fire and building codes.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

| | ACGIH TLV® | | OSHA PEL | | AIHA WEEL | |
|----------------|-------------------|------|-----------|---------|-----------|-----|
| Chemical Name | TWA | STEL | TWA | Ceiling | 8-hr TWA | TWA |
| Silica, quartz | 0.025 mg/m3 A2 | | 0.1 mg/m3 | | | |

ACGIH® = American Conference of Governmental Industrial Hygienists. TWA = Time-Weighted Average. A2 = Suspected human carcinogen.

OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits.

Appropriate Engineering Controls

General ventilation is usually adequate. Use local exhaust ventilation and enclosure, if necessary, to control amount in the air.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

No specific guidelines are available. Contact chemical manufacturer/supplier for advice.

Respiratory Protection

Wear a NIOSH approved air-purifying respirator with N100, R100, or P100 filter(s), wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance Colourless black - green crystals.

Odour Odourless
Odour Threshold Not available
pH Not applicable

Melting Point/Freezing Point 1600 °C (2912 °F) (melting); 1600 °C (2912 °F) (freezing)

Initial Boiling Point/Range2230 °C (4046 °F)Flash PointNot applicableEvaporation RateNot applicableFlammability (solid, gas)Will not burn.

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Upper/Lower Flammability or

Explosive Limit

Not applicable (upper); Not applicable (lower)

Vapour Pressure Not applicable
Vapour Density (air = 1) Not applicable

Relative Density (water = 1) 2.65

Solubility Insoluble in water; Insoluble in common organic solvents.

Partition Coefficient,

n-Octanol/Water (Log Kow)

Not applicable

Auto-ignition Temperature Not applicable

Decomposition Temperature 573 °C (1063 °F)

Viscosity Not applicable (kinematic); Not applicable (dynamic)

Other Information

Physical State Solid

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

Generation of dust.

Incompatible Materials

Strong oxidizing agents (e.g. perchloric acid), inorganic acids (e.g. hydrofluoric acid).

Hazardous Decomposition Products

None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

Acute Toxicity

| Chemical Name | LC50 | LD50 (oral) | LD50 (dermal) |
|----------------|------|-----------------|---------------|
| Silica, quartz | | 500 mg/kg (rat) | - |

Skin Corrosion/Irritation

Not a skin irritant. No information was located.

Serious Eye Damage/Irritation

Not an eye irritant. No information was located.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Harmful May cause nose and throat irritation.

Skin Absorption

No information was located.

Ingestion

No information was located.

Aspiration Hazard

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No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

In severe cases, permanently decreased lung function may occur.

Respiratory and/or Skin Sensitization

No information was located for respiratory sensitization. No information was located for skin sensitization.

Carcinogenicity

| Chemical Name | IARC | ACGIH® | NTP | OSHA |
|----------------|---------|--------|-----|------|
| Silica, quartz | Group 1 | A2 | | |

Key to Abbreviations

IARC = International Agency for Research on Cancer. Group 1 = Carcinogenic to humans.

ACGIH® = American Conference of Governmental Industrial Hygienists. A2 = Suspected human carcinogen.

NTP = National Toxicology Program.

OSHA = US Occupational Safety and Health Administration.

Reproductive Toxicity

Development of Offspring

Not known to harm the unborn child.

Sexual Function and Fertility

Not known to cause effects on sexual function or fertility.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

Conclusions cannot be drawn from the limited studies available.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

This section is not required by WHMIS. This section is not required by OSHA HCS 2012.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations USA

Listed on the TSCA Inventory.

Toxic Substances Control Act (TSCA) Section 8(b)

SECTION 16. OTHER INFORMATION

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SDS Prepared By Alphachem Limited (905)-821-2995

Date of Preparation December 24, 2015

Date of Last Revision January 05, 2016

Revision Indicators The following SDS content was changed on January 05, 2016:

Disclaimer

This document is offered only as a guide in the safe handling of the above product, and has been prepared from the best information currently available. It is not intended to be all-inclusive and the conditions of use may involve other additional considerations. Since

Alphachem Limited cannot anticipate or control the conditions under which the product may be used, it will not be liable for any claims, damages or losses which may result from the use or

reliance on any information herein.

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