

Safety Data Sheet (SDS)

Section 1 – Manufacturer Information

| | |
|----------------------------------|---|
| Product Name: | Desiccant, 650 grams bottle |
| Product Use: | Desiccant absorbent |
| Grades: | Synthetic amorphous silica |
| Synonyms: | SiO ₂ Amorphous H ₂ O |
| Product Number: | 79360 |
| Manufacturer/Distributor: | Rainbow Technology Corporation (800) 637-6047 |
| Contact Person: | Larry Joe Steeley, Jr. |
| Emergency Phone# (24 HRS) | Chem-Tel Inc. (800) 255-3924 |
| Issue Date: | May 27, 2014 |
| Replaces MSDS Dated: | October 9, 2009 |

Section 2 – Composition / Information on Ingredients

| Component Name | CAS Number | % by Weight |
|------------------|------------|----------------|
| Amorphous Silica | 7699-41-4 | 95.6 % approx. |
| Water | 7732-18-5 | Balance |

Section 3 – Hazard Identification

| | |
|----------------------------|--|
| Emergency Overview: | Exposure to any kind of dust is potentially harmful. |
| Eyes: | Avoid contact with eyes. |
| Skin: | Avoid contact with skin. |
| Ingestion: | Avoid ingestion. |
| Inhalation: | Avoid inhalation |

Section 4 – First Aid Measures

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|--------------------|---|
| Eyes: | Wash immediately with copious amounts of water and obtains medical attention. |
| Skin: | Wash accidental spillage from skin. Obtain medical attention if symptoms develop. |
| Ingestion: | Do not induce vomiting. Remove material from mouth. Drink 1-2 glasses of water or milk. If large amount swallowed or symptoms develop obtain medical attention. |
| Inhalation: | Remove from source of exposure. Obtain medical attention if symptoms develop. |

Section 5 – Fire Fighting Measures

Not applicable. Inorganic powder or granule. Will not support combustion.

Section 6 – Accidental Release Measures

Contain spillage and where possible damp with water spray to minimize dust. Take precaution against excessive dust exposure (use approved respiratory protective equipment), shovel into bags or suitable container.

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Section 7 – Handling and Storage

Bags and containers should be kept closed and in a dry place. A considerable static electricity charge can be built up during mechanical handling, which may become a hazard in atmosphere containing flammable vapors. Use local exhaust ventilation and/or personal equipment as necessary to minimize exposure to as low a level as possible and in any case below exposure limits.

Section 8 – Exposure Controls/Personal Protection

Engineering Controls: Containment and local exhaust ventilation as necessary to prevent any exposure greater than the above limits.

Personal Protection: Handle in well ventilated conditions in accordance with good industrial hygiene and safety practices. Wear suitable overalls, wear suitable gloves and eye protection, no eating, drinking or smoking in the workplace, practice good hygiene, avoid inhalation of dust. Wear suitable respiratory protective equipment if working in confined spaces with inadequate ventilation or whenever there is a risk of the exposure limits being exceeded. Advice on respiratory protective equipment is given in ASTM E1156-88 (reapproved 1993) and specifies standard practice for handling amorphous silica.

USA OSHA CFR 29 Part 1910, 1000

Silica, amorphous, precip & gel-6mg/m³, 8 hour TWA

USA ACGIH 1994/95

Silica gel – 10mg/m³ total dust, 8 hour TWAPrecipitated silica – 10 mg/m³ total dust, 8 hour TWA

Section 9 – Physical and Chemical Properties

| | | | |
|-------------------------|-------------------------------|------------------------|----------------|
| Appearance: | Crystalline or white granules | Vapor Density: | Not applicable |
| Odor: | None | Boiling Point: | Not applicable |
| Relative Density | 2.2 | Melting Point: | 1000 C |
| PH: | 3.5-8 (10% aqueous slurry) | Solubility H20) | Insoluble |
| Vapor Pressure: | Not applicable | Freezing Point: | Not applicable |

Section 10 – Stability and Reactivity

Stability: Stable
Conditions to avoid: None Known.
Hazardous Decomposition Products: None

Section 11 – Toxicological Information

Ingestion: Synthetic amorphous silica is not harmful by ingestion. The lethal dose for humans is estimated at over 15000mg/kg.

Inhalation: Synthetic amorphous has little adverse effect on lungs and does not product significant disease or toxic effect when exposure is kept under reasonable control. However, existing medical conditions may be aggravated by exposure to dust. Effects of dust may be greater, and occur at lower levels of exposure, in smokers compared to non-smokers. Further information can be found in the ACGIH publication, “Documentation of the Threshold Limit Values and Biological Indices – Fifth Edition”. IARC has evaluated the carcinogenic risks of silica and concluded that there is inadequate evidence for the carcinogenicity of amorphous silica.

Skin Contact: Prolonged contact may have a drying effect on the skin and mucous membranes.

Eye Contact: May cause discomfort and mild irritation.

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Section 12 – Ecological Information

Synthetic amorphous silica is virtually inert and has not known adverse effect on the environment.

Section 13 – Disposal Information

Silica gel is not classified as a special waste and can be disposed of by landfill at an approved site. Consult local regulations before disposal.

Section 14 – Transportation Information

No special packaging requirements. Not classified as dangerous goods under the United Nations Transport Recommendations or the International Maritime Org. (IMO)

Section 15 – Regulatory Information

Listed on TOSCA (USA) under CAS 7699-41-4

Section 16 – Other Information

HMIS – Hazardous Materials Identification System

| HMIS Rating | |
|--------------|---|
| Health | 0 |
| Flammability | 0 |
| Reactivity | 0 |

0 - minimal hazard, 1 - slight hazard, 2 - moderate hazard, 3 - serious hazard, 4 - severe hazard

The information provided herein was believed to be accurate at the time of preparation and prepared from a compilation of sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of this product, and to determine the suitability of the product for its intended use.