



SAFETY DATA SHEET

Creation Date 10-APR-2016

Revision Date 24-March-2021

Revision Number 3

1. Identification

Product Name: White/Clear Silica Gel (Beaded, Granular, Powder)
Supplier Name: Transo-Pharm USA, LLC
Address: 716 Dekalb Pike, #329
Blue Bell, PA 19422
Telephone Number: (610) 278-9751
Fax Number: (610) 278-9761
Emergency Telephone Number: (610) 278-9751

2. Hazard Identification

2.1 GHS classification in accordance with 29 CFR 1910 (OSHA HCS)

| | |
|---------------------------|---------------------|
| Respiratory sensitization | (Category 1), H334 |
| Skin sensitization | (Category 1), H317 |
| Reproductive toxicity | (Category 1B), H360 |
| Acute aquatic toxicity | (Category 2), H401 |
| Carcinogenicity | (Category 2), H351 |
| Chronic aquatic toxicity | (Category 3), H412 |

2.2 GHS label elements, including precautionary statements

Pictogram:



Signal Word: Danger

Hazard statement(s)

| | |
|------|---|
| H317 | May cause allergic skin reaction |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| H351 | Suspected of causing cancer |
| H360 | May damage fertility or the unborn child |
| H401 | Toxic to aquatic life |
| H420 | Harmful to aquatic life with long lasting effects |

Precautionary Statements

| | |
|-----------|---|
| P201 | Obtain special instructions before use |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P261 | Avoid breathing dust |
| P271 | Use only outdoors or in a well-ventilated area |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P273 | Avoid release to the environment |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P285 | In case of inadequate ventilation wear respiratory protection |
| P302+P352 | IF ON SKIN: Wash with plenty of water and soap |
| P304+P341 | IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in position comfortable for breathing. |
| P308+P313 | IF EXPOSED OR CONCERNED: Get medical advice. |

| | |
|-----------|--|
| P333+P313 | If skin irritation or rash occurs: Get medical advice |
| P363 | Wash contaminated clothing before reuse |
| P501 | Dispose of contents/container to an approved waste disposal plant in accordance with local regulation(s) |

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None

3. Composition/Information – Ingredients

| | |
|------------------|------------------------------------|
| Product Name | Silica Gel |
| Chemical Formula | SiO ₂ – Silicon Dioxide |
| CAS # | 7631-86-9 |
| Composition | 99.0 % SiO ₂ |

4. First Aid Measures

4.1 Description of first aid measures

Inhalation: Move the person to fresh air immediately. For breathing difficulties oxygen may be required. If breathing stops, provide artificial respiration. Get medical attention if discomfort continues

Ingestion: Rinse mouth thoroughly, drink plenty of water. Get medical attention if symptoms appear

Skin Contact: Wash skin thoroughly with soap and water for several minutes. Get medical attention if irritation persists after washing

Eye Contact: Immediately flush with water for up to 15 minutes. Remove any contact lenses and open eyes wide. Continue for 15 minutes. Get medical attention if discomfort continues

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or section 11.

5. Fire Fighting Measures

5.1 Suitable Extinguishing Media The product is nonflammable. Use fire extinguishing media appropriate for surrounding

5.2 Special hazards arising from the substance or mixture

Fire Hazards None known

Explosion Hazard Not Applicable

5.3 Advice for Firefighters Not Applicable

Protective Measures: Self-contained breathing apparatus and full protective clothing should be worn in case of fire

6. Accidental Release Measures

6.1 Personal Precautions: Wear protective gloves and proper respiratory equipment. Avoid inhalation of dust

6.2 Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment to be avoided

6.3 Containment & Clean Up: Use Vacuum, shovel, or broom. Avoid formation of dust. Dampen spillage area with water if necessary. Comply with local disposal regulations after clean up.

7. Handling and Storage

7.1 Usage Precautions: Avoid spilling, making skin or eye contact, or dust inhalation. Do not eat, drink, or smoke when using product

7.2 Storage Precautions: Store in a tightly closed original container cool dry and well-ventilated place.

8. Exposure Controls/Personal Protection

8.1 Exposure Controls / Personal Protection

Silica Gel (SiO₂) 7631-86-9 OSHA PEL – (Vacated) TWA 6 mg/m³

Cobalt Chloride 7646-79-9 ACGIH TLV TWA: 0.02 mg / m³

8.2 Appropriate Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume, or mist use ventilation to keep exposure to airborne contaminants below the exposure limit. Handle in accordance with good industrial hygiene and safety practices. Wash hands when handling.

8.3 Protective Equipment

Respiratory Equipment

Provide general and local exhaust ventilation

Proper respiratory equipment should be available to employees handling the product

Hand Protection

Gloves should be available to employees handling the product

Eye Protection

Safety glasses are recommended but not required

Hygiene Measures

Wash hands at the end of the work shift and prior to eating, drinking, or smoke breaks

Process Conditions

Provide eyewash station

9. Physical and Chemical Properties

9.1 Physical and Chemical Properties

| | |
|---------------------------|----------------------------|
| Appearance | Beads, granular, or powder |
| Color | White – Clear |
| Odor | None detected |
| Solubility | Not soluble in water |
| pH | 4.0 – 8.0 |
| Decomposition Temperature | 1 700 C |
| Flash Point | Not Applicable |
| Flammability | Not Applicable |
| Vapor Pressure | No information available |

| | |
|--|------------------------------------|
| Vapor Density | No information available |
| Relative Density | 2.1 |
| Partition Coefficient: n-octanol/water | No information available |
| Viscosity | No information available |
| Molecular Formula | SiO ₂ – Silicon Dioxide |
| Molecular Weight | 60.08 |

10. Stability and Reactivity

| | | |
|------|----------------------------------|---|
| 10.1 | Reactivity | No data available |
| 10.2 | Stability | Product is stable under normal temperature conditions and recommended use |
| 10.3 | Hazardous Reaction | No data available |
| 10.4 | Conditions to Avoid | This product is incompatible with powerful, Alkali metals, strong oxidizing agents. |
| 10.5 | Incompatible Materials | Water contact with product, steam, or water mixtures |
| 10.6 | Hazardous Decomposition Products | No data available |

11. Toxicological Information

11.1 Information on toxicological effect

Acute Toxicity

| | |
|--------------|---|
| Inhalation | Dust may irritate respiratory system or lungs. May have long term dust effects. |
| Ingestion | May cause discomfort if swallowed |
| Skin Contact | May cause skin irritation |
| Eye Contact | May irritate the eyes |
| Oral LD50 | Based on ATE Data, classification criteria are not met, ATE > 2,000 mg/kg |
| Dermal LD50 | Based on ATE Data, classification criteria are not met, ATE > 2,000 mg/kg |
| Mist LC50 | Based on ATE Data, classification criteria are not met, ATE > 5 mg / l |
| Irritation | No data available |

| | |
|--|--|
| Development affects | No data available |
| Sensitization | May cause sensitization by inhalation and skin contact |
| Carcinogenicity | Notation below indicates whether each agency Has listed the ingredient as a carcinogen. |
| Silica Gel (SiO ₂) 7631-86-9 | IARC (Not Listed), NTP (Not Listed), ACGIH (Not Listed), OSHA (Not Listed), Mexico (Not Listed) |
| Cobalt Chloride 7646-79-9 | IARC (2B-Possible), NTP-OSHA (Not Listed), ACGIH (A3-Confirmed animal carcinogen with unknown relevance to humans) |
| Reproductive Toxicity | No data available |
| Developmental affects | No data available |
| STOT – single exposure | No data available |
| STOT – repeated exposure | No data available |
| Aspiration Hazard | No data available |

12. Ecological Information

| | |
|----------------------------------|--|
| 12.1 Toxicity | No data available |
| 12.2 Persistence & Degradability | No data available |
| 12.3 Bioaccumulative potential | No data available |
| 12.4 Mobility in soil | No data available |
| 12.5 Results of PBT and vPvB | LC50, 96 Hours Fish mg/l > 10,000 EC50, 48 hours, DAPHNIA mg/l > 10,000 |
| 12.6 Other Adverse Affects | Can be harmful to aquatic life – long term affects |

13. Disposal Considerations

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|------------------------------|--|
| 13.1 Waste Treatment Methods | The material and its container must be disposed of in compliance with local regulations. |
|------------------------------|--|

14. Transport Information

| | |
|------------------------|--|
| DOT (USA) | This product is not covered by international regulation on transport of dangerous goods (IMDG, IATA, ADR, RID) |
| IMDG | This product is not covered by international regulation on transport of dangerous goods (IMDG, IATA, ADR, RID) |
| Transport Hazard Class | This product is not covered by international regulation on transport of dangerous goods (IMDG, IATA, ADR, RID) |

15. Regulation Information

15.1 Federal and state regulations:

| | |
|--|--|
| SARA 302 Components | No Chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. |
| SARA 313 | The following components are subject to reporting levels established by SARA Title III, Section 313. Cobalt dichloride CAS-No.: 7646-79-9 Revision date: 2009-07-17 |
| SARA 311/312 Hazards | Chronic health hazard |
| Massachusetts Right to Know Components | Silica-Amorphous, precipitated CAS-No.: 112926-00-8 Revision date: 1993-04-24 |
| Pennsylvania Right to Know Components | Silica-Amorphous, precipitated CAS-No.: 112926-00-8 Revision date: 1993-04-24 |

Cobalt dichloride

CAS-No.: 7646-79-9
Revision date: 2009-07-17

New Jersey Right to Know Components Silica-Amorphous, precipitated
CAS-No.: 112926-00-8
Revision date: 1993-04-24

Cobalt dichloride
CAS-No.: 7646-79-9
Revision date: 2009-07-17

California Proposition 65 Components This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Toxic Control Substances Act (TSCA) Listed on the TSCA Inventory
DOT Classification Not a DOT controlled material (United States)

15.2 Other Classifications

HMIS (U.S.A.)

| | |
|---------------------|---|
| Health hazard | 1 |
| Fire hazard | 0 |
| Reactivity | 0 |
| Personal protection | E |

National Fire Protection Association (U.S.A)

| | |
|--------------|---------------------|
| Health | 1 - SLIGHT Hazard |
| Flammability | 0 - Normal Material |
| Reactivity | 1 - SLIGHT Hazard |

GHS USA

Classification System

| | |
|----------------------|------------------------|
| Health Rating: | 5 – Minimal Hazard |
| Flammability Rating: | 5 – Minimal Hazard |
| Reactivity Rating: | 5 – Minimal Hazard |
| Contact Rating: | 4 – SLIGHT Hazard |
| Storage Color Code: | Green – Minimal Hazard |

Toxic Control Substances Act (TSCA) This product complies with all applicable rules or orders under the Toxic Control Substances Act (TSCA).

16. Other Information

16.1 Preparation Date: April 10, 2016

Revision Number: 3

16.2 Warranty: This information contained herein is based upon data considered true and accurate. However, Transo-Pharm USA, LLC makes no warranties, express or implied, as to the accuracy or adequacy of the information contained herein or the results to be obtained from the use thereof. This information is offered solely for the user's consideration, investigation and verification. Since the use and conditions of this information and the material described herein are not within the control of Transo-Pharm USA, LLC., it assumes no responsibility for injury to the user or third persons. The material described herein is sold only pursuant to Transo-Pharm's Terms and Conditions of Sale, including those limiting warranties and remedies contained therein. It is the responsibility of the user to determine whether any use of this data and information is in accordance with applicable federal, state, or local laws and regulations.