



SAFETY DATA SHEET

Creation Date 10-APR-2016

Revision Date 22-February-2024

Revision Number 4

1. Identification

Product Name: Orange Indicating Silica Gel (Beaded or Granular)
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 + Ferric Ammonium Sulfate indicator (NH ₄ Fe(SO ₄) ₂ <2.0%)
CAS #	7631-86-9/7783-87-7
Composition	99.0 % SiO ₂ + 2.0% max NH ₄ Fe(SO ₄) 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.

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

7. Handling and Storage

8. Exposure Controls/Personal Protection

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

8.1 Exposure Controls / Personal Protection

Silica Gel (SiO₂) 7631-86-9
Activation agent 8004-87-3

OSHA PEL - (Vacated) TWA 6 mg/m³
ACGIH: 0.5mg/m³ 8h TWA

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 or granular
Color	Orange - White
Odor	None detected
Solubility	Not soluble in water
pH	4.0 – 8.0
Decomposition Temperature	1700 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 (SiO₂) 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

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: June 1, 2015

Revision Number: 4

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.