

SAFETY DATA SHEET

Blue Silica gel (desiccant)

Version 1.2

Issue date: 07/29/2015

Revision date: 20/12/2017

SDS Record Number: CSSS-TCO-010-117325

1. Identification

GHS product identifier: Blue Silica gel (desiccant)
Identification of the product: CAS# 14808-60-7; EC#238-878-4
Recommended use: Hygroscopic moisture absorption, used in precision instruments, leather, clothing, food, medicines and household appliances packaging moisture-proof.
Recommended Restrictions: Not available.
Details of the supplier of the safety data sheet:
Supplier(Manufacturer): RUSHAN ORIENTAL SILICA CO., LTD.

2. Hazards identification

GHS classification:
Physical hazards: Not classified
Health hazards: Not classified
Environmental hazards: Not classified
GHS label elements:
Hazard Pictograms: No hazard pictogram is used.
Signal word: No signal word is used.
Hazard statement: Not applicable.
Precautionary statement:
Prevention: Not applicable.
Response: Not applicable.
Storage: Not applicable.
Disposal: Not applicable.
Specific hazards: Not applicable

3. Composition/information on ingredients

Substance/Mixture: Substance

Ingredient(s):

Chemical Name	CAS No.	EC No.	Concentration
Silica gel	14808-60-7	238-878-4	99.7%
Water	7732-18-5	231-791-2	0.174%
Cobalt dichloride	7646-79-9	231-589-4	0.006%

Other	-	-	0.12%
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4. First aid measures

Description of necessary first-aid measures:

- Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
- Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Flush skin with plenty of soap and water.
- Eye:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
- Ingestion:** Get medical aid. Wash mouth out with water.

Most important symptoms and effects, both acute and delayed: The product is not classified as harmful to human health effect.

Indication of immediate medical attention and special treatment needed, if necessary: If skin irritation or rash occurs, get medical advice/attention.

5. Fire-fighting measures

- Suitable extinguishing media:** Use agent most appropriate to extinguish fire.
- Unsuitable extinguishing media:** Not available.
- Specific hazards arising from the chemical:** Oxides of silicon.
- Protective equipment and precautions for firefighters:** As in any fire, wear a self-contained breathing apparatus in pressure demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is non combustible.

6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures:** For non-emergency personnel: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
For emergency responders: Wear an appropriate NIOSH/MSHA approved respirator if dust is generated. Ensure adequate ventilation.
- Environmental precautions:** Do not allow material to be released to the environment without proper governmental permits.
- Methods and materials for containment and cleaning up:** Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

7. Handling and storage

- Precautions for safe handling:** Protective measures: Open and handle container with care. Keep the room well ventilated. Avoid contact with skin, eyes and clothing. Keep away from foodstuffs and beverages. Wash hands after working.
Advice on general occupational hygiene: Avoid contact with skin, eyes and clothing. Avoid formation of dust and aerosols. Do not breathe dust. Do not breathe vapors or spray mist. Wash hands and face thoroughly after handling.
- Conditions for safe storage, including any incompatibilities:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

8. Exposure controls/personal protection

Control parameters:	Quartz, respirable dust, (see crystalline silica)(CAS#14808-60-7): Occupational Exposure Limit Value (8-hour reference period): 0.1 mg/ m3 (Ireland) Quartz, total(CAS#14808-60-7): 0.3 mg/ m3 (Denmark) Quartz (CAS#14808-60-7): 0.1 mg/ m3 (Malaysia) Quartz (resp.) (CAS#14808-60-7): TGG8u: 0.075 mg/ m3 (EU-OSHA)
Appropriate engineering controls:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment:	
Eye/face protection:	Wear chemical splash goggles.
Skin protection:	Wear appropriate protective clothing to prevent skin exposure.
Respiratory protection:	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hand protection:	Wear appropriate protective gloves to prevent skin exposure.

9. Physical and chemical properties

Appearance:	
Physical state:	Solid
Form:	Particles
Color:	Blue or dark blue
Odor:	Odorless
Odour threshold:	Not available.
PH:	Not available.
Melting point/Freezing point:	1610 °C(lit.)
Initial boiling point and boiling range:	2230 °C
Flash point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas) :	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapor pressure:	10mm Hg @ 1732 °C (3150°F)
Vapor density:	Not available.
Density:	2.6 g/mL at 25 °C(lit.)
Solubility (H₂O) :	Insoluble
Partition coefficient (n-octanol/water) :	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Molecular weight:	60.08
Molecular formula:	SiO ₂
Viscosity:	Not available.
Specific gravity:	2.65
Surface tension:	Not available.

10. Stability and reactivity

Reactivity:	The substance is stable under normal storage and handling conditions.
Chemical stability:	Stable at room temperature in closed containers under normal storage and handling

Possibility of hazardous reactions: conditions.
Conditions to avoid: No dangerous reactions known.
Incompatible materials: Incompatible materials.
Hazardous decomposition products: Strong oxidizing agents, strong acids.
 Oxides of silicon.

11. Toxicological information

Toxicological data:

Toxicological information: Occupational exposure to the substance or mixture may cause adverse effects.
Acute toxicity:
LD50(Oral, Rat): Not available.
LD50(Dermal, Rabbit): Not available.
LC50(Inhalation, Rat): Not available.
Skin corrosion/Irritation: Not classified
Serious eye damage/irritation: Not classified
Respiratory or skin sensitization: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
STOT- single exposure: Not classified
STOT-repeated exposure: Not classified
Aspiration hazard: Not classified
Other information This product has no known adverse effect on human health.

12. Ecological information

Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability: Not available.
Bioaccumulative potential: Not available.
Mobility in soil: Not available.
Other adverse effects: Not available.

13. Disposal considerations

Disposal methods: Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Waste from residues/unused products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

ADR

Blue Silica gel (desiccant)
 Version #: 1.2 Issue date: 07-29-2015. Revision date: 20-12-2017.

UN number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Labels required	Not regulated
Special precautions	See section 2.2

IATA

UN number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Special precautions	See section 2.2

IMDG

UN number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Environmental hazards	No
Marine pollutant	No
EmS	Not regulated
Special precautions	See section 2.2

RID

UN number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Labels required	Not regulated
Special precautions Read safety	See section 2.2

ADR; IATA; IMDG; RID

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: No information available

15. Regulatory information

Inventory status:

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Indication of changes: Version 1.1 Amended by GHS rev 4

Training instructions: Not applicable.

Further information: This information is based upon the present state of our knowledge. This MSDS has been compiled and is solely intended for this product.

NFPA 704:



Health	0
Fire	1
Reactivity	0
Personal Protection	A

Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.