

Safety Data Sheet

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 OhE Chemicals Inc.
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PRODUCT NAME: DESICCANT "SILICAGEL QP"

1. Product and Company Identification

Product name: SILICAGEL-QP
 Company Identification
 Name: OhE Chemicals Inc.
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2. Hazard Identification

GHS classification: Not classified

CLP classification: Not classified

Physical hazards	GHS	CLP
Explosives	N/A	Conclusive but not sufficient for classification
Flammable gases	N/A	Conclusive but not sufficient for classification
Flammable aerosols	N/A	Conclusive but not sufficient for classification
Oxidizing gases	N/A	Conclusive but not sufficient for classification
Gases under pressure	N/A	Conclusive but not sufficient for classification
Flammable liquids	N/A	Conclusive but not sufficient for classification
Flammable solids	Out of category	Out of category
Self-reactive substances and mixtures	N/A	Conclusive but not sufficient for classification
Pyrophoric liquids	N/A	Conclusive but not sufficient for classification
Pyrophoric solids	Out of category	Out of category
Self-heating substances and mixtures	Out of category	Out of category
Substances and mixtures which in contact with water emits flammable gases	Out of category	Out of category
Oxidizing liquids	N/A	Conclusive but not sufficient for classification
Oxidizing solids	Out of category	Out of category
Organic peroxides	N/A	Conclusive but not sufficient for classification

Corrosive to metals	Out of category	Out of category
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Health hazards	GHS	CLP
Acute toxicity - oral	N/A	Out of category
Acute toxicity - dermal	N/A	Out of category
Acute toxicity - inhalation	N/A	data lacking
Skin corrosion / irritation	N/A	data lacking
Serious eye damage / eye irritation	N/A	data lacking
Respiratory sensitization	N/A	data lacking
Skin sensitization	N/A	data lacking
Aspiration hazard	N/A	data lacking
Reproductive toxicity	N/A	data lacking
Effects via lactation	N/A	data lacking
Germ cell mutagen city	N/A	data lacking
Carcinogenicity	Out of category	Out of category
Specific target organ toxicity - single	N/A	data lacking
Specific target organ toxicity – repeated	N/A	data lacking

Environmental hazards	GHS	CLP
Hazardous to the aquatic environment (acute/short-term)	N/A	data lacking
Hazardous to the aquatic environment (long-term)	N/A	data lacking
hazardous to the ozone layer	N/A	data lacking

Label elements

The product is not classified and labeled

3. Identification of Material

Monotype/Mixture	Adsorbent		Packing Material	
	Mixture		Article	
Chemical names	Silica Gel 99wt%over	Neutral Red 20ppm	Polyester	Polyethylene
Formula	SiO ₂ · nH ₂ O	C ₁₅ H ₁₇ ClN ₄	(-CO-(C ₆ H ₄)-COO-(CH ₂) ₂ -O-) _n	(-CH ₂ -CH ₂ -) _n
CAS No.	7631-86-9	553-24-2	25038-59-9	9002-88-4
Reference No. in gazette list in Japan	1-548	None	7-1022	6-1

4. First-Aid Measures

In the case of contents spilling from the desiccant bag due to some causes, followed measures are applied.

- Eye contact : Wash eyes immediately and carefully for 30 minutes with running water, occasionally lifting upper and lower eyelids. If symptoms persist, get medical attention immediately.
- Skin contact : Wash off immediately with soap and plenty of water. Get medical attention if irritation or inflammation develops.
- Inhalation : Remove to fresh air immediately. If breathing has stopped, give artificial respiration. Keep affected person warm and rest. Get medical attention immediately.
- Ingestion : Clean mouth with water and drink afterwards plenty of water. If a large amount is swallowed, get medical attention.

5. Fire-Fighting Measures

- Fire Fighting Measures : Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by products. Stay upwind and keep out of low areas.
- Extinguishing Media : Water spray jet / Dry powder / Foam / Carbon dioxide (CO₂)

6. Accidental Release Measures

In the case of contents spilling from the desiccant bag due to some causes, followed measures are applied.

- Large spill : Sweep up with a minimum of dusting and place into suitable clean, dry containers for reclamation or later disposal. Residue should be cleaned up using a high-efficiency particulate filter vacuum.

7. Handling and Storage

- Handling : "Avoid exposure to water" "No Lay Down" "Handle with care"
- Storage : Store in a dry, a cool, well ventilated place, away from a heat source. Keep in tightly closed container. Always reseal container and protective moisture barrier liner after use.

8. Exposure Control/Personal Protection

In the case of contents spilling from the desiccant bag due to some causes, followed measures are applied.

Exposure limits	NIOSH : 10 mg/m ³ TWA 3000 mg/m ³ IDLH OSHA (US): 20 mppcf 80(mg/m ³) %SiO ₂ TWA
Ventilation	Provide local exhaust or process enclosure ventilation to meet published exposure limits.
Respiration	The specific respirator selected must be based on contamination levels found in the work place.
Eye protection	Employee must wear splash-proof or dust-resistant safety goggles to prevent eye contact with this substance.
Gloves	Employee must wear appropriate protective gloves to prevent contact with this substance.
Clothing	Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance

9. Physical/Chemical Properties

Properties	Silica Gel	Neutral red	Polyester	Polyethylene
Appearance	Transparent	Dark green powder	Transparent	Transparent
Odor	Odorless	Odorless	Odorless	Odorless
Boiling point	2,230 °C	--	--	--
Vapor Pressure	None	--	None	None
Volatile		None	None	None
Melting point		Decomposition (290°C)	255 °C	85-110 °C
True density	--	None	1.2 g/ml	0.90 g/ml
Balk density	0.70-0.75 g/ml	None	--	--
Solubility (Water)	Insoluble	Soluble 4.0%	Insoluble	Insoluble
pH	4.0-8.0		--	--

10. Physical Hazard (Stability and Reactivity)

Chemical Stability : Stable at normal temperatures and pressure.
 Conditions to Avoid : None reported.
 Incompatible Materials : No data available.
 Hazardous decomposition products : Not relevant

11. Toxicological Information

Acute Oral Toxicity : Rat LD50 > 31600mg/kg
 Acute dermal toxicity : Rabbit LD50 > 2000mg/kg
 Acute inhalation toxicity : No data available
 Skin corrosion/irritation : No data available
 Serious eye damage/irritation : No data available
 Chronic Toxicity : No data available
 Carcinogenicity : IARC Group3

12. Ecological Information

Biodegradability : The methods for determining biodegradability are not applicable to inorganic substances.
 Acute aquatic toxicity : LC50 96 h Brachydanio rerio 5000 mg/L [static]
 Bioaccumulation : Not relevant for inorganic substances
 Remarks : None

13. Disposal Consideration

Observe all national and local regulations when disposing of this substance.
 This substance is disposed as nonflammable material. In case of large contents disposing, the manifest of industrial waste trader is required.

14. Transport Information

No classification currently assigned. Avoid to directly contacting with water.
 Protect container from physical damage. Keep in tightly closed container.
 IMDG : not restricted
 IATA-DGR : not restricted

15. Regulatory Information

Food Sanitation Law in Japan: Silica Gel – Food additive for manufacturing substance (Insoluble inorganic material) = below 0.5% in food.

Federal regulation: code 21 parts 182.1711 (Multiple Purpose GRAS Food Substances).

International Regulation

Silica gel (CAS No. 7631-86-9)

ENCS (Japan)	:	1-548
EINECS (EU)	:	231-545-4
REACH (EU)	:	Registered substance
TSCA (US)	:	Listed
IECSC (China)	:	Listed
KECL (Korea)	:	KE-31032
DSL (Canada)	:	Listed
AICS (Australia)	:	Listed

16. Other information

The information contained herein is based upon data considered true and accurate, However, OhE Chemicals Inc. makes no warranties expressed or implied, as to the accuracy or adequacy of the information contained herein or the results to be obtained from the use there of.