

Issue Date : July 15, 1992
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Material Safety Data Sheet

1. Identification of the Substance/Mixture and of the Company/Undertaking

Product Name	SILICA GEL W 100G,150G,200G,250G,500G
Company Name	Tokai Chemical Industry. Co., Ltd.
Address	70 Umemori, Koshido, Toyota city, Aichi 470-0332, Japan
Responsible Department	Sales Division
Telephone Number	+81-565-45-1035
Fax Number	+81-565-45-1691
Use of the Product	Desiccant / Absorbent
Reference Number	SGWH-GHS-01E

2. Hazards Identification

GHS Classification

		Desiccant
Physical Hazards	Explosives	—
	Combustible/Flammable gases	—
	Combustible/Flammable aerosols	—
	Combustion-supporting/Oxidizing gases	—
	Gases under pressure	—
	Flammable liquids	—
	Flammable solids	—
	Self-reactive substances and mixtures	—
	Pyrophoric liquids	—
	Pyrophoric solids	—
	Self-heating substances and mixtures	—
	Substances and mixtures which, in contact with water, emit flammable gases	—
	Oxidizing liquids	—
	Oxidizing solids	—
	Organic peroxides	—
	Corrosive to metals	—
	Health Hazards	Acute toxicity (Oral)
Acute toxicity (Dermal)		—
Acute toxicity (Inhalation/ Gases)		—
Acute toxicity (Inhalation/ Fumes)		—
Acute toxicity (Inhalation/ Mist)		—
Skin corrosion/ Irritation		—
Serious eye damage/ Eye irritation		—
Respiratory sensitization		—
Skin sensitization		—
Germ cell mutagenicity		—
Carcinogenicity	—	
Reproductive toxicity	—	
Specific target organ toxicity (Single exposure)	—	
Specific target organ toxicity (Repeated exposure)	—	

Environmental Hazards	Aspiration hazards	—	
	Hazards to the aquatic environment (acute)	—	
	Hazards to the aquatic environment (chronic)	—	

“—” are categorized as not classify or classification not possible.

Label Elements

Pictogram	None
Signal Word	None

Others Hazards Information

None
It is rare to touch desiccant directly, as it is packed with non-woven.

Others Physical Information

None

3. Composition/Information on Ingredients

Substance/Mixture Mixture (White gel packed with non-woven)

Chemical (Common) Name Desiccant
Silica Dioxide (Silica Gel White)

Chemical Formula $SiO_2 \cdot nH_2O$

Reference Number in Gazetted List
CSCCL
1-548

ISHL Silica(No312)
Notifiable Substance
CAS No. 112926-00-8

Hazardous ingredients None

Hazardous impurities None

4. First Aid Measures

It is rare to touch desiccant directly, as it is packed with non-woven.

Inhalation No special measures required
If inhaled large amount dust of desiccant, remove the victim into fresh air and keep at rest.

Skin contact No special measures required
If contact with large amount of desiccant, rinse with soap and clean water.

Eye contact Do not rub eyes.

	Rinse with clean water.
Ingestion	Immediately gargle with water and drink water.
	If feeling unwell, consult with a doctor.

5. Fire Fighting Measures

Extinguishing media	Desiccant is incombustible. Use extinguishing media for surrounding fire.
Unsuitable extinguishing media	None
Special hazards arising from the substance or mixture	None
Special protective equipments for fire-fighters	Wear appropriate protective equipments.

6. Accidental Release of Measures

Personal precautions, protective equipments and emergency procedures	Sweep spilled product into appropriate containers without creating dust. When it absorbs water, Silica gel break to pieces, so wear appropriate protective equipments.
Environmental Precautions	Prevent products from running into the river and causing an effect to the environment.
Methods for cleaning up	Sweep spilled product into appropriate containers without creating dust.

7. Handling and Storage

Precautions for safe handling Technical Measures Instructions	When you deal with large amount of desiccant, wear appropriate protective equipments like Section 8. No special precautions when dealing with small amount. After open the package, making the handling quickly, use it up by a packing unit. When you can't use it up, reseal it up and prevent it from absorbing humidity.
Precautions for safe handling	Avoid contact with skin and eyes. Avoid breath in. Wear appropriate protective equipments.
Conditions for safe storage, including any incompatibilities Technical Measures Incompatible Products Storage Conditions Packaging Materials	Appropriate exhaust ventilation is required. Hydrogen fluoride Avoid direct sunlight, keep it cool and ventilated place. Keep container tightly closed in dry and well.

8. Exposure controls/Personal Protection

Engineering measures	When you deal with large amount of desiccant, in case of insufficient ventilation and closed place, provide appropriate exhaust ventilation.
Control consistency	Not listed

Permission concentration Japanese society of occupational Health (2008)
 Inhalant dust 2mg/m³
 Total dust 8mg/m³
 ACGIH (2009)
 TLV-TWA Not listed

Personal Protective Equipments

Respiratory protection	Respiratory protective equipments
Hand protection	Protective gloves
Eye protection	Safety glasses or goggles
Skin protection	Work uniform

9. Physical and Chemical Properties

	Desiccant(Silica Gel White)
Appearance	White bead or Fracture geometry
Odor	Odorless
PH	4.0~8.0
Melting Point	1,610°C
Boiling Point	2,230°C
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Flash Point	Incombustible
Flammable Limits	Incombustible
Density/Specific Gravity	0.7~0.8g/ml
Solubility	
Water Solubility	Insoluble
Fat Solubility	Insoluble except hydrofluoric acid and strong alkali.
Partition Coefficient (n-Octanol/Wate	Not applicable
Autoignition Temperature	Not applicable
Decomposition Temperature	Not available

10. Stability and Reactivity

Stability	Stable under normal storage conditions and handling.
Reactivity	React chemically with hydrogen
Conditions to Avoid	High temperature, Sunlight, High humidity.
Incompatible materials	Hydrogen fluoride
Hazardous Decomposition Products	Not available

11. Toxicological Information

Silica Gel White

Acute toxicity	
Ingestion	Lethal dose for adult over 15g/kg As it isn't absorbed in the body, no systemic toxicity, so listed as non-toxic material.
Inhalation	Not available
Skin corrosion/Irritation	May cause skin irritation
Serious eye damage/ Irritation	May cause eye irritation
Respiratory or skin sensitization	Not available
Germ cell mutagenicity	Not available
Carcinogenicity	Not available
Reproductive toxicity	Not available
Stot -single exposure	Not available
Stot -repeated exposure	Not available
Aspiration hazards	Not available

12. Ecological Information

Ecotoxicity	Not available
Persistence/Degradability	Not available
Bioaccumulation	Not available
Mobility	Not available

13. Disposal Considerations

Waste treatment measures	Dispose of contents/container to waste in accordance with local/regional/national regulations (to be specified). After danger and the hazardous properties are noticed thoroughly to waste treatment company, processing is consigned.
Contaminated vessel	Dispose in accordance with all applicable regulations without contents.

14. Transport information

International Regulations	
(b)Marine Regulations	Not applicable
(c)Aviation regulation	Not applicable
Regulations in Japan	
(a)Land Regulations	Not applicable
(b)Marine Regulations	Not applicable
(c)Aviation regulations	Not applicable
Special Precautions	Check the damage of the container and a leak, then make prevention of collapse of cargo. Avoid sunlight and rainwater during transportation.

15. Regulatory Information

Industrial and Safety and health Law Article 57 The notifiable substance No.312 Silica
 Pneumoconiosis Law
 Law Concerning Waste Disposal and Scavenging

16. Other Information

Reference book

NITE-Chemical Risk Information Platform

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the products.