

	Material Safety Data Sheet	CAS No.	112945-52-5, 7631-86-9	
		Fumed Silica		Rev. Date
			Rev. No.	2

1. CHEMICLA PRODUCTS & COMPANY IDENTIFICATION

- A. **PRODUCT NAME** : Fumed Silica
 B. **CHEMICAL NAME** : Silicon Dioxide
 C. **SHIPPING NAME** : Fumed Silica
 D. **CHEMICAL FAMILY** : Silica, Amorphous, Fumed
 E. **CHEMICAL FORMULA** : SiO₂
- F. **MANUFACTURER'S NAME** : OCI Company Ltd.(Gunsan Plant)
 G. **MANUFACTURER'S ADDRESS** : 233 Soryong-dong, Gunsan, Jeollabuk-do, Korea.
 H. **TELEPHONE NUMBER** : 82-61-460-6430 Korea
 I. **FACSIMILE NUMBER** : 82-61-460-6430 Korea
 J. **DEPARTMENT**: Production Team II

2. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name	CAS NO	KE NO	EC NO	Weight(%)
Silicon Dioxide	112945-52-5, 7631-86-9	-	231-545-4	100

3. HAZARDS IDENTIFICATION

NFPA level (0-4) :

Health = 1 Fire = 0 Reactivity = 0

Potential hazards

Inhalation :

Short-term exposure : not applicable

Long-term exposure : May cause physical discomfort to the respiratory tract.

Skin contact :

Short-term exposure : not applicable

Long-term exposure : not applicable

Eye contact :

Short-term exposure : not applicable

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Long-term exposure : not applicable

Ingestion :

Short-term exposure : not applicable

Long-term exposure : not applicable

4. FIRST AID MEASURES

General Information

If irritation occurs or breathing becomes difficult, get medical attention.

Inhalation :

If inhaled, remove to fresh air. If symptoms occur, move to non-polluted area.

Contact with the skin :

Wash off skin with plenty of water and soap.

Contact with the eye :

Rinse eye with plenty of water keeping eyelid open.

If feel discomfort, consult an ophthalmologist.

Ingestion :

Clean mouth with water and drink plenty of water.

If symptoms occur, supply with medical care.

5. FIRE-FIGHTING MEASURES

Fire and explosion hazards : Material does not burn.

Recommended extinguishing media :

Use extinguishing measures appropriate to the source of fire.

Specific hazards during fire fighting : None known

Other information :

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations

6. ACCIDENTAL RELEASE MEASURES

Personal precautions :

Use personal protective equipment

Methods for cleaning up :

Sweep up or vacuum up spillage and collect in suitable container for disposal.

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7. HANDLING AND STORAGE

Handling :

Safe handling advice : If necessary, place local ventilation.

Storage :

Store according to the regulations.

Keep in a dry place.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory protection

No special protective equipment required

Eye protection :

Use chemical safety goggles.

Hand protection :

Wear protective gloves made of rubber, leather.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state / form : solid-powder

Colour : white

odour : odourless

Safety parameters

Molecular weight : 60.09

Molecular formular : SiO₂

pH value : 3.7 – 4.7

Melting point / range : 2930–3110 F (1610–1710 C)

Boiling point : not applicable

Flash point : not applicable

Autoflammability : not applicable

Lower explosion limit : not applicable

Upper explosion limit : not applicable

Vapour pressure : not applicable

Density : approx. 2.2 g/cm³ (at 20°C)

Tapped density : approx. 50 g/l (method : DIN / ISO 787/11)

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Water solubility : hardly soluble

Viscosity : not applicable

10. STABILITY AND REACTIVITY

Hazardous decomposition products : None known

Reactivity : Stable at room temp., 1atm

Conditions to avoid : None known

Hazardous decomposition products :

If stored and handled in accordance with standard industrial practices and local regulations where applicable : None known.

Hazardous polymerization cannot occur.

11. TOXICOLOGICAL INFORMATION

Human experience

Silicosis or other product specific illnesses of the respiratory tract were not observed in association with the product

Acute oral toxicity	LD50 Rat : > 10000 mg/kg
Acute inhalation toxicity	LC50 Rat : 0.139 mg/l, 4H No deaths occurred.
Acute dermal toxicity	LD50 Rabbit : > 5000 mg/kg
Skin irritation	Rabbit : not irritating
Eye irritation	Rabbit : not irritating
Repeated dose toxicity Oral	No negative effects
Carcinogenicity	No negative effects
Toxicity to reproduction	No negative effects
Mutagenicity assessment	

In vitro and in vivo experiments, no evidence of mutagenic effects

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Behaviour in environmental compartments

Ecotoxicity effects

Toxicity to fish	LC50 (Brachydanio rerio) : > 10000mg/l, 96H
Toxicity to daphnia	EC50 Daphnia magna : > 10000 mg/l, 24H

13. DISPOSAL CONSIDERATIONS

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Product disposal

After solidification, material can be stored together with domestic waste.

Observe local / stated / federal regulations.

Packaging disposal

Completely discharge containers, it may be recycled or reused.

Observe local / stated / federal regulations.

14. TRANSPORT INFORMATION

US DOT & CANADA TDG SURFACE

Not regulated for transport

Transport by sea IMDG-Code

Not regulated for transport

Air transport ICAO-TI / IATA-DGR

Not regulated for transport

15. REGULATORY INFORMATION

SILICA, AMORPHOUS, FUMED

Republic of KOREA Regulations

- Industrial safety health measure : Not regulated

The Toxic Substance Chemical Act : Not regulated

The Fire Services Act : Not regulated

U.S. Federal regulations

CERCLA 103 Regulated Chemicals (40CFR302.4) :

This material does not contain any CERCLA regulated chemicals.

SARA 302 Regulated Chemicals (40CFR355.30) :

This material does not contain any SARA regulated chemicals.

SARA 304 Regulated Chemicals (40CFR355.40) :

This material does not contain any SARA regulated chemicals.

SARA 311 / 312 Regulated Chemicals (40CFR370.21) :

This material does not contain any SARA regulated chemicals.

SARA 313 Regulated Chemicals (40CFR372.65) :

This material does not contain any SARA regulated chemicals.

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OSHA Regulated Chemicals (29CFR1910.119) :

This material does not contain any OSHA regulated chemicals.

Regulations

California Proposition 65 (drinking water regulations) : Not regulated

EU Risk and Safety Phrases : None

National list of goods :

The list of goods of U.S.(TSCA) : Not restricted

TSCA 12(b) Export Notification :

This material does not contain any TSCA 12(b) regulated chemicals.