

Material Safty Data Sheet

Product

SR3910

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name	SR3910
1.2 Recommended use of the chemical and restrictions on use	
Recommended use of the product	Silicone sealant
Restrictions on use of the product	No data
1.3 Company information	
Company Name	DAEHEUNG CHEMICAL CO., LTD.
Address	52, Sandan-ro15beon-gil,Pyeongtaeksi,Gyeonggi-do
Emergency telephone number	+82-31-663-5251

2. HAZARD IDENTIFICATION

2.1 Hazard, Risk classification	Skin sensitization: Category 1
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2.2 GHS label elements

Symbol



Signal word

Waring

Harmful Risk phrases

H317 May cause an allergic skin reaction.

Precautions

Prevention

P261 In contact with water releases flammable gases.

P272 May intensify fire; oxidiser.

P280 Contains gas under pressure; may explode if heated.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

Corresponding

P333+P313 If skin irritation or rash occurs: Get medical advice/attention

P362+P364 Take off contaminated clothing and wash it before reuse.

Storage

Not available

Disposal

P501 Dispose of contents and container in accordance with local regulations.

Amorphous, fumed silica

Health	0
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Fire	1
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Reactivity	0
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Methyltrimethoxysilane

Health	1
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Fire	3
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Reactivity	1
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Lime stone

Health	No data
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Fire	No data
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Reactivity	No data
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Polydimethylsiloxane

Health	1
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Fire	1
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Reactivity	0
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Siloxanes and Silicones, di-Me, hydroxy-terminated

Health	1
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Fire	2
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Reactivity	0
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3. COMPOSITION / INFORMATION ON INTEGREDIENTS

Name	Comon Name	CAS No	Contents(%)
Amorphous, fumed silica	SILICA, AMORPHOUS, FUMED, CRYSTALLINE FREE	112945-52-5	1 ~ 10
Methyltrimethoxysilane	METHYLTRIMETHYLOXYSILANE	1185-55-3	1 ~ 5
Lime stone		1317-65-3	30 ~ 40
Polydimethylsiloxane	DIMETHYLPOLYSILOXANE/WATER EMULSIONS	63148-62-9	10 ~ 20
Siloxanes and Silicones, di-Me, hydroxy-terminated	DIMETHYL POLYSILOXANE	70131-67-8	30 ~ 40

4. FIRST AID MEASURES

4.1 Eye contact	<p>Get emergency medical attention.</p> <p>Rinse skin and eyes immediately with plenty of water for at least 20 minutes when in contact with the material.</p>
4.2 In case of skin contact	<p>If skin irritation or rash occurs, seek medical advice and advice.오.</p> <p>Wash contaminated clothing before reuse.</p> <p>In the case of hot materials, immerse or wash affected areas in a large amount of cold water to remove heat</p> <p>Get emergency medical attention.</p> <p>Remove contaminated clothing and shoes and isolate contaminated areas.</p> <p>Rinse skin and eyes immediately with plenty of water for at least 20 minutes when in contact with the material.</p> <p>Prevent spread of contamination on mild skin contact</p>
4.3 Inhalation	<p>Move to a place with fresh air.</p> <p>If not breathing, give artificial respiration.</p> <p>If breathing is difficult, give oxygen.</p> <p>Please warm and stabilize.</p>
4.4 Ingestion	<p>Get emergency medical attention.</p>
4.5 Other precautions	<p>Have the health care worker know about the material and take protective measures</p>

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media	
Suitable extinguishing media	<p>Use alcohol foam, carbon dioxide or water spray for digestion related to this material.</p> <p>Use dry sand or earth for digestion.</p>
5.2. Special hazards arising from the substance or mixture	
Hazardous combustion products	<p>Container may explode on heating</p> <p>Some are burned but not easily ignited</p> <p>Non-flammable, the substance itself is not burned but decomposes on heating and may cause corrosive / toxic fumes</p> <p>May cause irritating, corrosive and toxic gases in case of fire</p>
5.3.Protective equipment and precautions for fire-fighting	
Protective equipment and precautions for fire-fighting	<p>Be aware that it may be melted and transported.</p> <p>In case of tank fire, extinguish at maximum distance or use unmanned fire fighting equipment</p> <p>In the event of a large fire in a tank fire, use unmanned fire fighting equipment and allow it to retreat if it is not possible</p> <p>Rescuers should wear appropriate protective equipment.</p> <p>Extinguish the area and maintain safety distance.</p> <p>Some can be transported at high temperatures</p> <p>Leaky water may cause contamination.</p> <p>Contact may cause skin and eye burns.</p> <p>Drill ditches for the disposal of digestive waters to prevent them from being scattered.</p> <p>Move container from fire area if it is not hazardous.</p> <p>Cool containers with large amounts of water even after the fire has extinguished.</p>

Protective equipment and precautions for fire-fighting	In the event of a tank fire, if there is a high tone in the pressure relief device or if the tank is discolored, immediately withdraw it Tanks Fires in a fire.
6. ACCIDENTAL RELEASE MEASURES	
6.1. Personal Precautions, protective equipment and emergency procedures	Remove all ignition sources as very fine particles may cause fire or explosion. Wipe off any spills immediately and follow all protective precautions. Remove all ignition sources. Stop the leak if it is not dangerous. Do not touch a damaged container or spill without adequate protection. Cover with plastic sheet to prevent diffusion Note the substances and conditions to avoid
6.2. Environmental precautions	Prevent entry into waterways, sewers, basements, and confined spaces.
6.3. Methods and material for containment and cleaning up	Absorb spillage with inert materials (eg dry sand or earth) and place in a chemical waste container. Absorb liquid and rinse contaminated area with detergent and water..
7. HANDLING AND STORAGE	
7.1. Precautions for safe handling	Avoid inhalation.(Dust, fume, gas, mist, steam, spray) Do not carry contaminated clothing out of the workplace. Follow all MSDS / label precautions as product residues may remain after emptying containers. Avoid prolonged or repeated skin contact. Note the substances and conditions to avoid Refer to engineering controls and personal protective equipment.
7.2 Safe storage	The empty drum should be completely drained, properly blocked and immediately returned to the drum regulator or properly positioned.
8. EXPOSURECONTROLS & PERSONAL PROTECTION	
8.1. Exposure standards for chemicals, biological exposure standards, etc.	
Domestic regulation	
Amorphous, fumed silica	No data
Methyltrimethoxysilane	No data
Lime stone	TWA – 10mg/m3
Polydimethylsiloxane	No data
terminated Siloxanes and Silicones, di-Me, hydroxy-	No data
ACGIH regulation	No data
Biological exposure standard	No data
8.3 Personal protective equipment	
Respiratory protection	Wear a respirator that has been approved by the Korean Occupational Safety and Health Administration in accordance with the physicochemical properties of the substance being exposed.
9. PHYSICAL AND CHEMICAL PROPERTIES	
9.1 Appearance	
Physical Form	Paste
Color	White, Gray, Black .. Etc
9.2 Odor	alcohol
9.3 Odor threshold	No data
9.4 pH	No data
9.5 Melting point / freezing point	No data
9.6 Boiling point	No data
9.7 Flash point	No data
9.8 Evaporation Rate	No data
9.9 Flammability (solid, gas)	No data
9.10 Upper/lower flammability or explosive limits	No data
9.11 Vapor Pressure	No data
9.12 Solubility	No data
9.13 Vapor Density	No data
9.14 Specific gravity	1.35 ~ 1.40
9.15 N-octanol/water partition coefficient	No data
9.16 Autoignition temperature	No data
9.17 Decomposition Temperature	No data

9.18 Viscosity
9.19 Molecular weight

Paste
No data

10. STABILITY AND REACTIVITY

10.1 Possibility of chemical stability and adverse reaction

	Amorphous, fumed silica	Container may explode on heating
	Amorphous, fumed silica	Some are burned but not easily ignited
	Amorphous, fumed silica	Non-flammable, the substance itself is not burned but decomposes on heating and may cause corrosive / toxic fumes
	Amorphous, fumed silica	May cause irritating, corrosive and toxic gases in case of fire
	Methyltrimethoxysilane	Flammable liquids and vapors
	Methyltrimethoxysilane	Violent reaction may cause fire and explosion.
	Methyltrimethoxysilane	May form explosive mixture at or above flash point
	Methyltrimethoxysilane	Container may explode on heating
	Methyltrimethoxysilane	Highly flammable: easily ignited by heat, spark, flame
	Methyltrimethoxysilane	Leakage is a fire / explosion hazard.
	Methyltrimethoxysilane	Vapors may explode indoors, outdoors, and in drains
	Methyltrimethoxysilane	Vapors may form explosive mixtures with air
	Methyltrimethoxysilane	Vapors may cause dizziness or suffocation without knowledge.
	Methyltrimethoxysilane	May cause irritation, corrosive and toxic gas in case of fire.
	Methyltrimethoxysilane	Inhalation and contact may irritate or burn the skin and eyes.
	Lime stone	No data
	Polydimethylsiloxane	Stable at normal temperature and pressure
	Polydimethylsiloxane	Container may explode on heating
	Polydimethylsiloxane	Some are burned but not easily ignited
	Polydimethylsiloxane	May cause irritation and poisonous gas in case of fire
	Polydimethylsiloxane	Inhalation of the substance may be harmful
	Polydimethylsiloxane	Some fluids may cause dizziness, suffocation-inducing vapors
terminated	Siloxanes and Silicones, di-Me, hydroxy-	Stable at normal temperature and pressure
terminated	Siloxanes and Silicones, di-Me, hydroxy-	Container may explode on heating
terminated	Siloxanes and Silicones, di-Me, hydroxy-	Some are burned but not easily ignited
terminated	Siloxanes and Silicones, di-Me, hydroxy-	May cause irritation and poisonous gas in case of fire
terminated	Siloxanes and Silicones, di-Me, hydroxy-	Inhalation of the substance may be harmful
terminated	Siloxanes and Silicones, di-Me, hydroxy-	Some fluids may cause dizziness, suffocation-inducing vapors
10.2 Conditions to avoid		
	Amorphous, fumed silica	Heat source, spark, flame, etc.
	Methyltrimethoxysilane	Keep away from heat, sparks, open flame and heat. – No smoking
	Lime stone	No data
	Polydimethylsiloxane	Heat source, spark, flame, etc.
terminated	Siloxanes and Silicones, di-Me, hydroxy-	Heat source, spark, flame, etc.
10.3 Substances to avoid		
	Amorphous, fumed silica	Combustible materials, reducing materials
	Methyltrimethoxysilane	No data
	Lime stone	No data
	Polydimethylsiloxane	Combustible material
	Polydimethylsiloxane	Irritant, toxic gas
terminated	Siloxanes and Silicones, di-Me, hydroxy-	Combustible material
terminated	Siloxanes and Silicones, di-Me, hydroxy-	Irritant, toxic gas
10.4 Hazardous materials generated during decomposition		
	Amorphous, fumed silica	Corrosive / toxic fume
	Amorphous, fumed silica	Irritating, corrosive, toxic gas
	Methyltrimethoxysilane	Irritation, Corrosive, Toxic gas
	Lime stone	No data
	Polydimethylsiloxane	No data
terminated	Siloxanes and Silicones, di-Me, hydroxy-	No data

11. TOXICOLOGICAL INFORMATION

11.1. Information about possible routes of exposure

	Amorphous, fumed silica	Exposure to respiration can cause pneumoconiosis in large quantities of inhalation May cause nausea, vomiting and diarrhea by stimulating the stomach. Exposed to skin contact Exposed by eye contact
	Methyltrimethoxysilane	stimulus
	Lime stone	No data
	Polydimethylsiloxane	Can absorb body by inhalation
	Polydimethylsiloxane	Can be absorbed by inhalation and extinguisher
	Polydimethylsiloxane	Through skin, digestive system, can absorb body by inhalation of aerosol
	Polydimethylsiloxane	Absorption of body by inhalation of steam
	Polydimethylsiloxane	Can be absorbed by inhalation, skin and digestive system
terminated	Siloxanes and Silicones, di-Me, hydroxy-	Can absorb body by inhalation
terminated	Siloxanes and Silicones, di-Me, hydroxy-	Can be absorbed by inhalation and extinguisher
terminated	Siloxanes and Silicones, di-Me, hydroxy-	Through skin, digestive system, can absorb body by inhalation of aerosol
terminated	Siloxanes and Silicones, di-Me, hydroxy-	Absorption of body by inhalation of steam
terminated	Siloxanes and Silicones, di-Me, hydroxy-	Can be absorbed by inhalation, skin and digestive system
	11.2 Health hazard information	
	Acute toxicity	
	Oral	
	Amorphous, fumed silica	LD50 > 3100 mg/kg Rat
	Methyltrimethoxysilane	LD50 12.3 mg/kg Rat
	Lime stone	No data
	Polydimethylsiloxane	LD50 > 17000 mg/kg Rat
terminated	Siloxanes and Silicones, di-Me, hydroxy-	LD50 > 64 mg/kg Rat (Labor Department 3)
	Percutaneous	
	Amorphous, fumed silica	No data
	Methyltrimethoxysilane	(No data)
	Lime stone	No data
	Polydimethylsiloxane	LD50 > 2000 mg/kg Rabbit
terminated	Siloxanes and Silicones, di-Me, hydroxy-	LD50 > 16 mg/kg Rabbit (Labor Department 1)
	Inhalation	
	Amorphous, fumed silica	No data
	Methyltrimethoxysilane	(No data)
	Lime stone	No data
	Polydimethylsiloxane	No data
terminated	Siloxanes and Silicones, di-Me, hydroxy-	No data
	Skin corrosive or irritant	
	Amorphous, fumed silica	No skin irritation reported
	Methyltrimethoxysilane	rabbit, Weak stimulus OPEN DRAIZE TEST, Mild
	Lime stone	No data
	Polydimethylsiloxane	No data
terminated	Siloxanes and Silicones, di-Me, hydroxy-	No data
	Severe eye damage or irritation	
	Amorphous, fumed silica	No eye irritation reported
	Methyltrimethoxysilane	rabbit,Weak stimulus STANDARD DRAIZE TEST, Mild
	Lime stone	No data
	Polydimethylsiloxane	Eye Standard dose test Rabbit amount: 100 mg / 1H; Reaction: Mild (light stimulus)
	Siloxanes and Silicones, di-Me, hydroxy-	No data
terminated		
	Respiratory sensitization	
	Amorphous, fumed silica	No data
	Methyltrimethoxysilane	No data
	Lime stone	No data
	Polydimethylsiloxane	No data
terminated	Siloxanes and Silicones, di-Me, hydroxy-	No data
	Skin sensitization	
	Amorphous, fumed silica	No skin sensitization reported in humans
	Methyltrimethoxysilane	No data
	Lime stone	No data
	Polydimethylsiloxane	No data

terminated	Siloxanes and Silicones, di-Me, hydroxy-	No data
	Carcinogenicity	
terminated	Industrial Safety and Health Act	
	Amorphous, fumed silica	No data
	Methyltrimethoxysilane	No data
	Lime stone	No data
	Polydimethylsiloxane	No data
	Siloxanes and Silicones, di-Me, hydroxy-	No data
terminated	Notice of Ministry of Employment and Labor	
	Amorphous, fumed silica	No data
	Methyltrimethoxysilane	No data
	Lime stone	No data
	Polydimethylsiloxane	No data
	Siloxanes and Silicones, di-Me, hydroxy-	No data
terminated	IARC	
	Amorphous, fumed silica	Group 3 (Silica, amorphous)
	Methyltrimethoxysilane	No data
	Lime stone	No data
	Polydimethylsiloxane	No data
	Siloxanes and Silicones, di-Me, hydroxy-	No data
terminated	OSHA	
	Amorphous, fumed silica	No data
	Methyltrimethoxysilane	No data
	Lime stone	No data
	Polydimethylsiloxane	No data
	Siloxanes and Silicones, di-Me, hydroxy-	No data
terminated	ACGIH	
	Amorphous, fumed silica	No data
	Methyltrimethoxysilane	No data
	Lime stone	No data
	Polydimethylsiloxane	No data
	Siloxanes and Silicones, di-Me, hydroxy-	No data
terminated	NTP	
	Amorphous, fumed silica	No data
	Methyltrimethoxysilane	No data
	Lime stone	No data
	Polydimethylsiloxane	No data
	Siloxanes and Silicones, di-Me, hydroxy-	No data
terminated	EU CLP	
	Amorphous, fumed silica	No data
	Methyltrimethoxysilane	No data
	Lime stone	No data
	Polydimethylsiloxane	No data
	Siloxanes and Silicones, di-Me, hydroxy-	No data
terminated	Germ cell mutagenicity	
	Amorphous, fumed silica	In vivo / In vitro tests There was no evidence that this substance caused mutations In any of the tests. – Genotoxicity effects do not occur when exposed to this material.
	Methyltrimethoxysilane	No data
	Lime stone	No data
	Polydimethylsiloxane	No data
	Siloxanes and Silicones, di-Me, hydroxy-	No data
terminated	Reproductive toxicity	
	Amorphous, fumed silica	No data
	Methyltrimethoxysilane	No data
	Lime stone	No data
	Polydimethylsiloxane	No data
	Siloxanes and Silicones, di-Me, hydroxy-	No data
terminated	Specific target organ toxicity (single exposure)	
	Amorphous, fumed silica	Short-term exposure may cause respiratory irritation.
	Methyltrimethoxysilane	No data

	Lime stone	No data
	Polydimethylsiloxane	No data
	Siloxanes and Silicones, di-Me, hydroxy-	No data
terminated	Specific target organ toxicity (repeated exposure)	
	Amorphous, fumed silica	After two years of long-term application, evidence for reversible effects in this material could not be explained, and at high doses, there was only a slight increase in tissue weight or growth delay from time to time. – showed normal lung reaction.
	Methyltrimethoxysilane	No data
	Lime stone	No data
	Polydimethylsiloxane	No data
	Siloxanes and Silicones, di-Me, hydroxy-	No data
terminated	Inhalation hazard	
	Amorphous, fumed silica	No data
	Methyltrimethoxysilane	No data
	Lime stone	No data
	Polydimethylsiloxane	No data
	Siloxanes and Silicones, di-Me, hydroxy-	No data
terminated		

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity

	Fish	
	Amorphous, fumed silica	No data
	Methyltrimethoxysilane	LC50 32662.842 mg/l 96 hr
	Lime stone	No data
	Polydimethylsiloxane	LC50 37.79 mg/l 96 hr <i>Lepomis macrochirus</i>
	Siloxanes and Silicones, di-Me, hydroxy-	No data
terminated	Shellfish	
	Amorphous, fumed silica	No data
	Methyltrimethoxysilane	LC50 29104.090 mg/l 48 hr
	Lime stone	No data
	Polydimethylsiloxane	LC50 44.5 mg/l 48 hr <i>Daphnia magna</i>
	Siloxanes and Silicones, di-Me, hydroxy-	No data
terminated	Algae	
	Amorphous, fumed silica	No data
	Methyltrimethoxysilane	EC50 1.000 mg/l 96 hr
	Lime stone	No data
	Polydimethylsiloxane	No data
	Siloxanes and Silicones, di-Me, hydroxy-	No data
terminated		

12.2. Persistence and degradability

	Persistence	
	Amorphous, fumed silica	No data
	Methyltrimethoxysilane	log Kow -0.67 ((Estimate)))
	Lime stone	No data
	Polydimethylsiloxane	No data
	Siloxanes and Silicones, di-Me, hydroxy-	log Kow 2.43
terminated	degradability	
	Amorphous, fumed silica	No data
	Methyltrimethoxysilane	(No data)
	Lime stone	No data
	Polydimethylsiloxane	No data
	Siloxanes and Silicones, di-Me, hydroxy-	No data
terminated		
	12.3. Bioaccumulation	
	Enrichment	
	Amorphous, fumed silica	No data
	Methyltrimethoxysilane	(No data)
	Lime stone	No data
	Polydimethylsiloxane	No data
	Siloxanes and Silicones, di-Me, hydroxy-	BCF 14.77
terminated	Biodegradability	
	Amorphous, fumed silica	No data
	Methyltrimethoxysilane	(No data)

	Lime stone	No data
	Polydimethylsiloxane	No data
	Siloxanes and Silicones, di-Me, hydroxy-	No data
terminated		
12.4. Soil mobility		
	Amorphous, fumed silica	No data
	Methyltrimethoxysilane	No data
	Lime stone	No data
	Polydimethylsiloxane	No data
	Siloxanes and Silicones, di-Me, hydroxy-	No data
terminated		
12.5. Other harmful effects		
	Amorphous, fumed silica	No data
	Methyltrimethoxysilane	No data
	Lime stone	No data
	Polydimethylsiloxane	No data
	Siloxanes and Silicones, di-Me, hydroxy-	No data
terminated		
13. DISPOSAL CONSIDERATIONS		
13.1 Disposal method	Dispose of contents and container in accordance with local regulations.	
13.2 Disposal considerations	Dispose of contents and container in accordance with local regulations.	
14. TRANSPORT INFORMATION		
14.1 UN Number (UN No.)	UN transport hazard classification not available	
14.2. UN proper shipping name	Not applicable	
14.3. Transport hazard class(es)	Not applicable	
14.4. Packing group	Not applicable	
14.5. Environmental hazards	No data	
14.6 Special safety measures that the user needs or needs to know about transportation or transportation		
Emergency measures in case of fire	Not applicable	
Emergency Action	Not applicable	
14.7 Other International Transportation Regulations		
Air Transport (IATA-DGR)	Not subject to IATA regulations.	
15. REGULATORY INFORMATION		
15.1 Regulation by the Industrial Safety and Health Act		
Lime stone	Working environment Measured material (measurement cycle: 6 months)	
Lime stone	Special medical examination subject substance (diagnosis period: 24 months)	
Lime stone	Exposure standard setting substance	
15.2 Regulation by Chemical Substance Control Act	No data	
15.3 Regulation under dangerous goods safety management law	No data	
15.4 Regulation by waste management law	Designated waste	
15.5 Other domestic and foreign regulations		
Domestic regulation		
Residual Organic Pollutant Control Act	Not available	
Foreign regulation		
OSHA regulations	Not applicable	
CERCLA regulations	Not applicable	
US Administration Information(EPCRA 302 regulations)	Not applicable	
US Administration Information(EPCRA 304 regulations)	Not applicable	
US Administration Information(EPCRA 313 regulations)	Not applicable	
US Administration Information(Rotterdam Convention material)	Not applicable	
US Administration Information(Stockholm Convention substance)	Not applicable	
US Administration Information(Montreal Protocol substance)	Not applicable	
EU Classification information(Confirmed classification result)	Not applicable	
EU Classification information(Danger phrases)	Not applicable	
EU Classification information(Safety phrases)	Not applicable	

16. OTHER INFORMATION

16.1 Source of material

Amorphous, fumed silica

Corporate Solution From Thomson Micromedex(<http://csi.micromedex.com>)(Information on possible routes of exposure)

Seton compliance resource center(<http://www.setonresourcecenter.com>)(Information on possible routes of exposure)

OECD Screening Information Data Set(<http://cs3-hq.oecd.org/scripts/hpv/>)(Oral)

OECD Screening Information Data Set(<http://cs3-hq.oecd.org/scripts/hpv/>)(Skin corrosive or irritant)

OECD Screening Information Data Set(<http://cs3-hq.oecd.org/scripts/hpv/>)(Severe eye damage or irritation)

OECD Screening Information Data Set(<http://cs3-hq.oecd.org/scripts/hpv/>)(Skin sensitization)

International Uniform Chemical Information Database(IUCLID)(<http://ecb.jrc.it/esis>)(Germ cell mutagenicity)

OECD SIDS(<http://www.chem.unep.ch/irptc/sids/OECDSDS/silicates.pdf>)(Specific target organ toxicity (single exposure))

International Programme on Chemical Safety(IPCS INCHEM)(<http://www.inchem.org/>)(Specific target organ toxicity (repeated exposure))

OECD Screening Information Data Set(<http://cs3-hq.oecd.org/scripts/hpv/>)(Specific target organ toxicity (repeated exposure))

OECD Screening Information Data Set(<http://cs3-hq.oecd.org/scripts/hpv/>)(Recommended use of the product)

Methyltrimethoxysilane

THOMSON(oral)

THOMSONSkin corrosive or irritant)

THOMSON(Severe eye damage or irritation)

ECOSAR(fish)

ECOSAR(shellfish)

ECOSAR(algae)

Lime stone

Polydimethylsiloxane

National Library of Medicine(NLM)(<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CHEM>)(Oral)

National Library of Medicine(NLM)(<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CHEM>)(Percutaneous)

Corporate Solution From Thomson Micromedex(<http://csi.micromedex.com>)(Severe eye damage or irritation)

The ECOTOXicology database (ECOTOX)(http://cfpub.epa.gov/ECOTOX/quick_query.htm)(Fish)

The ECOTOXicology database (ECOTOX)(http://cfpub.epa.gov/ECOTOX/quick_query.htm)(shellfish)

The Chemical Database, The Department of Chemistry at the University of Akron(<http://ull.chemistry.uakron.edu/erd>)

Siloxanes and Silicones, di-Me, hydroxy-terminated

Corporate Solution From Thomson Micromedex(<http://csi.micromedex.com>)(Oral)

Corporate Solution From Thomson Micromedex(<http://csi.micromedex.com>)(Percutaneous)

Quantitative Structure Activity Relation(QSAR)(residual)

Quantitative Structure Activity Relation(QSAR)(Enrichment)

16.2 Date First

2017-09-01

16.3 Revision number and date

Revision number

Revision Date

16.4 Etc.

○ The MSDS (Material Safety Data Sheet) is edited or partially corrected by referring to the MSDS provided by KOSHA (Korea Occupational Safety and Health Agency)