Material Safty Data Sheet

Product	SR9100

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name	SR9100
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
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.
Aluminum oxide	
Health	0
Fire	No data
Reactivity	No data
Amorphous, fumed silica	
Health	0
Fire	1
Reactivity	0
Methyltrimethoxysilane	
Health	1
Fire	3
Reactivity	1
Aluminium hydroxide	
Health	0
Fire	No data
Reactivity	0
Siloxanes and Silicones, di-Me, hydroxy-terminated	
Health	1
Fire	2
Reactivity	0

3. COMPOSITION / INFORMATION ON INTEGREDIENTS

Name	Comon Name	CAS No	Contents(%)
Aluminum oxide	Alpha-ALUMINA	1344-28-1	60 ~ 70
Amorphous, fumed silica	SILICA, AMORPHOUS, FUMED, CRYSTALLINE FREE	112945-52-5	1 ~ 5
Methyltrimethoxysilane	SILANE, TRIMETHOXMETHYL-	1185-55-3	1 ~ 5
Aluminium hydroxide		21645-51-2	10 ~ 20
Siloxanes and Silicones, di-Me, hydroxy-terminated	DIMETHYL POLYSILOXANE	70131-67-8	10 ~ 20

4. FIRST AID MEASURES

4.1 Eye contact

Get emergency medical attention.

Rinse skin and eyes immediately with plenty of water for at least 20 minutes when in contact with the material.

4.2 In case of skin contact

If skin irritation or rash occurs, seek medical advice and advice.오.

Wash contaminated clothing before reuse.

In the case of hot materials, immerse or wash affected areas in a large amount of cold water to remove heat

Get emergency medical attention.

Remove contaminated clothing and shoes and isolate contaminated areas.

Rinse skin and eyes immediately with plenty of water for at least 20 minutes when in contact with the material.

Prevent spread of contamination on mild skin contact

4.3 Inhalation

Move to a place with fresh air.

If not breathing, give artificial respiration.

If breathing is difficult, give oxygen.

Please warm and stabilize.

4.4 Ingestion

Get emergency medical attention.

4.5 Other precautions

Have the health care worker know about the material and take protective measures

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Use alcohol foam, carbon dioxide or water spray for digestion related to this material.

Use dry sand or earth for digestion.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Container may explode on heating

Some are burned but not easily ignited

Non-flammable, the substance itself is not burned but decomposes on heating and may cause corrosive / toxic fumes

May cause irritating, corrosive and toxic gases in case of fire

5.3.Protective equipment and precautions for fire-fighting

Protective equipment and precautions for fire-fighting

Be aware that it may be melted and transported.

In case of tank fire, extinguish at maximum distance or use unmanned fire fighting equipment

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

Rescuers should wear appropriate protective equipment.

Extinguish the area and maintain safety distance.

Some can be transported at high temperatures

Leaky water may cause contamination.

Contact may cause skin and eye burns.

Drill ditches for the disposal of digestive waters to prevent them from being scattered.

Move container from fire area if it is not hazardous.

Cool containers with large amounts of water even after the fire has extinguished.

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	
Aluminum oxide	TWA - 10mg/m3
Amorphous, fumed silica	No data
Methyltrimethoxysilane	No data
Aluminium hydroxide	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data
ACGIH regulation	
Aluminum oxide	TWA 10 mg/㎥
Amorphous, fumed silica	No data
Methyltrimethoxysilane	Not applicable
Aluminium hydroxide	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data
Biological exposure standard	No data

8.2. Appropriate engineering controls	Use process isolation, local exhaust ventilation or other engineering controls to keep air levels below exposure limits.
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	1.85 ~ 1.95
9.15 N-octanol/water partition coefficient	No data
9.16 Autoignition temperature	No data
9.17 Decomposition Temperature	No data
9.18 Viscosity	Paste
9.19 Molecular weight	No data

10. STABILITY AND REACTIVITY

10.1 Possibility of chemical stability and adverse reaction

Aluminum oxide	No data
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.
Aluminium hydroxide	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	Stable at normal temperature and pressure
Siloxanes and Silicones, di-Me, hydroxy-terminated	Container may explode on heating
Siloxanes and Silicones, di-Me, hydroxy-terminated	Some are burned but not easily ignited
Siloxanes and Silicones, di-Me, hydroxy-terminated	May cause irritation and poisonous gas in case of fire
Siloxanes and Silicones, di-Me, hydroxy-terminated	Inhalation of the substance may be harmful
Siloxanes and Silicones, di-Me, hydroxy-terminated	Some fluids may cause dizziness, suffocation-inducing vapors

10.2 Conditions to avoid

Aluminum oxide	No data
Amorphous, fumed silica	Heat source, spark, flame, etc.
Methyltrimethoxysilane	Keep away from heat, sparks, open flame and heat. - No smoking
Aluminium hydroxide	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	Heat source, spark, flame, etc.

10.3 Substances to avoid

Aluminum oxide	Combustible materials, reducing materials
Amorphous, fumed silica	No data
Methyltrimethoxysilane	No data

Aluminium hydroxide	Combustible material
Siloxanes and Silicones, di-Me, hydroxy-terminated	Combustible material
Siloxanes and Silicones, di-Me, hydroxy-terminated	Irritant, toxic gas

10.4 Hazardous materials generated during decomposition

Aluminum oxide	No data
Amorphous, fumed silica	Corrosive / toxic fume
Amorphous, fumed silica	Irritating, corrosive, toxic gas
Methyltrimethoxysilane	Irritation, Corrosive, Toxic gas
Aluminium hydroxide	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

11. TOXICOLOGICAL INFORMATION

11.1. Information about possible routes of exposure

Aluminum oxide	No data
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
Aluminium hydroxide	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	Can absorb body by inhalation
Siloxanes and Silicones, di-Me, hydroxy-terminated	Can be absorbed by inhalation and extinguisher
Siloxanes and Silicones, di-Me, hydroxy-terminated	Through skin, digestive system, can absorb body by inhalation of aerosol
Siloxanes and Silicones, di-Me, hydroxy-terminated	Absorption of body by inhalation of steam
Siloxanes and Silicones, di-Me, hydroxy-terminated	Can be absorbed by inhalation, skin and digestive system

11.2 Health hazard information

Acute toxicity

Oral

Aluminum oxide	LD50 > 10000 ㎎/㎏ Rat (No deaths during observation (OECD Guideline 401))
Amorphous, fumed silica	LD50 > 3100 ㎎/㎏ Rat
Methyltrimethoxysilane	LD50 12.3 ㎎/㎏ Rat
Aluminium hydroxide	LD50 > 2000 ㎎/㎏ Rat (female, No deaths (OECD TG 423, GLP))
Siloxanes and Silicones, di-Me, hydroxy-terminated	LD50 > 64 ㎎/㎏ Rat (Labor Department 3)

Percutaneous

Aluminum oxide	No data
Amorphous, fumed silica	No data
Methyltrimethoxysilane	(No data)
Aluminium hydroxide	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	LD50 > 16 ㎎/㎏ Rabbit (Labor Department 1)

Inhalation

Aluminum oxide	Dust LC50> 2.3 ㎎/ℓ 4 hr Rat (No daeths, EPA 40 CFR 158, OECD Guideline 403, GLP)
Amorphous, fumed silica	No data
Methyltrimethoxysilane	(No data)

Aluminium hydroxide — Dust LC50 7.6 ㎎/ℓ 1 hr Rat (male (OECD TG 403))

Siloxanes and Silicones, di-Me, hydroxy-terminated — No data

Skin corrosive or irritant

Aluminum oxide — Observation of the amount of 0.5 g of rabbit (water) at 24, 48, and 72 hours after 4 hours exposure showed no stimulation, OECD Guideline 404, GLP

Amorphous, fumed silica — No skin irritation reported

Methyltrimethoxysilane — rabbit, light stimulus OPEN DRAIZE TEST, Mild

Aluminium hydroxide — No signs of irritation (OECD TG 404)

Siloxanes and Silicones, di-Me, hydroxy-terminated — No data

Severe eye damage or irritation

Aluminum oxide — Eye irritation test results for 72 hours in rabbits (male), unstimulated. (OECD Guideline 405, GLP)

Amorphous, fumed silica — No eye irritation reported

Methyltrimethoxysilane — rabbit, Weak stimulus OPEN DRAIZE TEST, Mild

Aluminium hydroxide — Severe eye damage / irritation test using rabbit, no irritant(OECD TG 405 ,GLP)

Siloxanes and Silicones, di-Me, hydroxy-terminated — No data

Respiratory sensitization

Aluminum oxide — Respiratory sensitization tests on mice (male) revealed non-irritant

Amorphous, fumed silica — No data

Methyltrimethoxysilane — No data

Aluminium hydroxide — No data

Siloxanes and Silicones, di-Me, hydroxy-terminated — No data

Skin sensitization

Aluminum oxide — Skin sensitization test results for guinea pigs (non-irritant) (OECD Guideline 406, EPA OPPTS 870.2600, GLP)

Amorphous, fumed silica — No skin sensitization reported in humans

Methyltrimethoxysilane — No data

Aluminium hydroxide — Skin irritability test results using guinea pig (water), non-irritant (OECD TG 406 ,GLP)

Siloxanes and Silicones, di-Me, hydroxy-terminated — No data

Carcinogenicity

Industrial Safety and Health Act

Aluminum oxide — No data

Amorphous, fumed silica — No data

Methyltrimethoxysilane — No data

Aluminium hydroxide — No data

Siloxanes and Silicones, di-Me, hydroxy-terminated — No data

Notice of Ministry of Employment and Labor

Aluminum oxide — No data

Amorphous, fumed silica — No data

Methyltrimethoxysilane — No data

Aluminium hydroxide — No data

Siloxanes and Silicones, di-Me, hydroxy-terminated — No data

IARC

Aluminum oxide — No data

Amorphous, fumed silica — Group 3 (Silica, amorphous)

Methyltrimethoxysilane — No data

Aluminium hydroxide	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

OSHA

Aluminum oxide	No data
Amorphous, fumed silica	No data
Methyltrimethoxysilane	No data
Aluminium hydroxide	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

ACGIH

Aluminum oxide	No data
Amorphous, fumed silica	No data
Methyltrimethoxysilane	No data
Aluminium hydroxide	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

NTP

Aluminum oxide	No data
Amorphous, fumed silica	No data
Methyltrimethoxysilane	No data
Aluminium hydroxide	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

EU CLP

Aluminum oxide	No data
Amorphous, fumed silica	No data
Methyltrimethoxysilane	No data
Aluminium hydroxide	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

Germ cell mutagenicity

Aluminum oxide	Mammalian erythrocyte micronucleus tests in vivo in rats (cancer) showed positive (OECD Guideline 474)
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
Aluminium hydroxide	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

Reproductive toxicity

Aluminum oxide	(OECD Guideline 422, GLP), a repeat-binding study of dose toxicity studies with regeneration / developmental toxicity screening tests in rats (female / male)
Amorphous, fumed silica	No data
Methyltrimethoxysilane	No data
Aluminium hydroxide	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

Specific target organ toxicity (single exposure)

Aluminum oxide	(LD50> 2000 mg / kg bw (OECD Guideline 423, GLP) in rats (cancer) as a result of acute toxicity (oral)
Amorphous, fumed silica	Short-term exposure may cause respiratory irritation.

Methyltrimethoxysilane	No data
Aluminium hydroxide	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

Specific target organ toxicity (repeated exposure)

Aluminum oxide	LOAEL: 141 or 302 mg / kg No significant effects were observed (OECD Guideline 407), as a result of repeated oral toxicity (28 days)
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
Aluminium hydroxide	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

Inhalation hazard

Aluminum oxide	No data
Amorphous, fumed silica	No data
Methyltrimethoxysilane	No data
Aluminium hydroxide	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity

Fish

Aluminum oxide	LC50 0.078 ~ 0.108 ㎎/ℓ 96 hr Pimephales promelas
Amorphous, fumed silica	No data
Methyltrimethoxysilane	LC50 32662.842 ㎎/ℓ 96 hr
Aluminium hydroxide	LC50 > 218.6441 ㎎/ℓ 96 hr Pimephales promelas (Ring formula(ASTM 2000,GLP))
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

Shellfish

Aluminum oxide	LC50 > 3.69 ㎎/ℓ 48 hr Ceriodaphnia dubia
Amorphous, fumed silica	No data
Methyltrimethoxysilane	LC50 29104.090 ㎎/ℓ 48 hr
Aluminium hydroxide	LC50 22 ㎎/ℓ 96 hr etc (Gammarus sp., Exponential)
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

Algae

Aluminum oxide	EC50 > 0.024 ㎎/ℓ 96 hr Scenedesmus subspicatus
Amorphous, fumed silica	No data
Methyltrimethoxysilane	EC50 1.000 ㎎/ℓ 96 hr
Aluminium hydroxide	ErC50 0.0455 ~ 0.6999 ㎎/ℓ 72 hr etc (Pseudokirchneriella subcapitata Exponential(OECD Guideline 201))
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

12.2. Persistence and degradability

Persistence

Aluminum oxide	No data
Amorphous, fumed silica	No data
Methyltrimethoxysilane	log Kow -0.67 ((Estimate))
Aluminium hydroxide	log Kow -0.5304

Siloxanes and Silicones, di-Me, hydroxy-terminated	log Kow 2.43
degradability	
Aluminum oxide	No data
Amorphous, fumed silica	No data
Methyltrimethoxysilane	(No data)
Aluminium hydroxide	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data
12.3. Bioaccumulation	
Enrichment	
Aluminum oxide	No data
Amorphous, fumed silica	No data
Methyltrimethoxysilane	(No data)
Aluminium hydroxide	BCF 3.162
Siloxanes and Silicones, di-Me, hydroxy-terminated	BCF 14.77
Biodegradability	
Aluminum oxide	No data
Amorphous, fumed silica	No data
Methyltrimethoxysilane	(No data)
Aluminium hydroxide	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data
12.4. Soil mobility	
Aluminum oxide	No data
Amorphous, fumed silica	No data
Methyltrimethoxysilane	No data
Aluminium hydroxide	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data
12.5. Other harmful effects	
Aluminum oxide	Pikephales promelas NOEC 28d 7.1mg / L (ECHA), Daphnia magna NOEC 28d 1.89mg / L (ECHA), Pseudokirchneriella subcapitata 96hr NOEC ≥0.004mg / L (OECD Guideline 201 Inhibition Test), GLP (Poorly soluble substance (water solubility is less than 1 mg / L) and therefore not classified as acute toxicity
Amorphous, fumed silica	No data
Methyltrimethoxysilane	No data
Aluminium hydroxide	Fish (Pimephales promelas), NOEC (7d) = 1 156.5 μg / L, ring formula (EPA 2002, GLP) Crustacean (Ceriodaphnia dubia), EC50 (7d) = 250 μg / L, Ring formula (USEPA 2002) (Pseudokirchneriella subcapitata), NOErC (72h) ≥ 4 μg / L, exponential (OECD Guideline 201, GLP)
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

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	No data
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

Aluminum oxide

ECHA

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/OECDSIDS/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(algea)

Aluminium hydroxide

EPIWIN(Enrichment)

NITE, HSDB

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	2017-08-28
16.3 Revision number and date	
Revision number	0 time
Revision Date	0
16.4 Etc.	

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