Material Safty Data Sheet

Product	SR333

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name	SR333
1.2 Recommended use of the chemical and restrictions on use	
Recommended use of the product	Panel sealing
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.
Corresponding	P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
Storage	Not available
Disposal	P501 Dispose of contents and container in accordance with local regulations.
Amorphous, fumed silica	
Health	0
Fire	1
Reactivity	0
Lime stone	
Health	No data
Fire	No data
Reactivity	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	
Health	3
Fire	1
Reactivity	1
Methyl Oximino Silane	
Health	1
Fire	2
Reactivity	1
Siloxanes and Silicones, di-Me, hydroxy-terminated	
Health	1
Fire	2
Reactivity	0

3. COMPOSITION / INFORMATION ON INTEGREDIENTS

Name	Comon Name	CAS No	Contents(%)
Amorphous, fumed silica	Amorphous, fumed silica	112945-52-5	1 ~ 5
Lime stone		1317-65-3	25 ~ 35
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	N-(3-Trimethoxysilylpropyl)ethylenediamine	1760-24-3	0.1 ~ 1
Methyl Oximino Silane	(METHYLTRI(2-BUTANONEOXIMYL)SILANE);	22984-54-9	1 ~ 5
Siloxanes and Silicones, di-Me, hydroxy-terminated	DIMETHYL POLYSILOXANE	70131-67-8	50 ~ 60

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

Extinguish the area and maintain safety distance.

Be aware that it may be melted and transported.

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

Move container from fire area if it is not hazardous.

Protective equipment and precautions for fire-fighting

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

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

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.

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

Be careful because it can be carried in a hot state.

	Some can be transported at high temperatures
	Leaky water may cause contamination.
	Contact may cause skin and eye burns.

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	
Lime stone	TWA - 10mg/m3
ACGIH regulation	No data
Biological exposure standard	No data

8.2 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
9.2 Odor	Oxime
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	1.38
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

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
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	No data
Methyl Oximino Silane	Polymerization: not polymerized Reactivity: Contact with water or moist air may form flammable and / or toxic gases and vapors.
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

Amorphous, fumed silica	Heat source, spark, flame, etc.
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	No data
Methyl Oximino Silane	Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat. Keep away from waterworks and sewers.
Siloxanes and Silicones, di-Me, hydroxy-terminated	Heat source, spark, flame, etc.

10.3 Substances to avoid

Amorphous, fumed silica	Combustible materials, reducing materials
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	No data
Methyl Oximino Silane	Oxidant
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

Amorphous, fumed silica	Corrosive / toxic fume
Amorphous, fumed silica	Irritating, corrosive, toxic gas
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	During burning, pyrolysis or combustion can produce irritating and highly toxic gases.
Methyl Oximino Silane	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	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
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	Respiratory tract burns, allergic reactions Mucosa burn Skin burns, allergic reactions Snow burn
Methyl Oximino Silane	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

Amorphous, fumed silica	LD50 > 3100 ㎎/㎏ Rat
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	LD50 2400 ㎎/㎏ Rat
Methyl Oximino Silane	(No data)
Siloxanes and Silicones, di-Me, hydroxy-terminated	LD50 > 64 ㎎/㎏ Rat (Labor Department 3)

Percutaneous

Amorphous, fumed silica	No data
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	LD50 16000 ㎎/㎏ Rabbit
Methyl Oximino Silane	(No data)
Siloxanes and Silicones, di-Me, hydroxy-terminated	LD50 > 16 ㎎/㎏ Rabbit (Labor Department 1)

Inhalation

Amorphous, fumed silica	No data
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	No data
Methyl Oximino Silane	(No data)
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

Skin corrosive or irritant

Amorphous, fumed silica	No skin irritation reported
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	No irritation: 24, 48, 72 hours after erythema score less than 1.5
Methyl Oximino Silane	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

Severe eye damage or irritation

Amorphous, fumed silica	No eye irritation reported
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	With stimulation: average observed (24 + 48 + 72 hrs) chemosis 3.0, enanthema 2.5, congestion 1.0, opacity 2.0
Methyl Oximino Silane	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

Respiratory sensitization

Amorphous, fumed silica	No data
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	No data
Methyl Oximino Silane	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

Skin sensitization

Amorphous, fumed silica	No skin sensitization reported in humans
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	민감함
Methyl Oximino Silane	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

Carcinogenicity

Industrial Safety and Health Act

Amorphous, fumed silica	No data
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	No data
Methyl Oximino Silane	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

Notice of Ministry of Employment and Labor

Amorphous, fumed silica	No data
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	No data
Methyl Oximino Silane	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

IARC

Amorphous, fumed silica	Group 3 (Silica, amorphous)
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	No data
Methyl Oximino Silane	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

OSHA

Amorphous, fumed silica	No data
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	No data

Methyl Oximino Silane	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data
ACGIH	
Amorphous, fumed silica	No data
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	No data
Methyl Oximino Silane	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data
NTP	
Amorphous, fumed silica	No data
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	No data
Methyl Oximino Silane	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data
EU CLP	
Amorphous, fumed silica	No data
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	No data
Methyl Oximino Silane	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data
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.
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	Return mutation test: negative concentration> 5000 ug / plate HGPRT assay: negative CHO cells: S9-: 0.1-4.0 mg / ml, S9 +: 2.0-5.0 mg / ml Sister exchange chromosomal aberration test: negative, CHO cells: 1.5 to 4.0 mg / ml without S9 activation; 1.0 to 3.5 mg / ml with S9 activation Micronucleus Test: Negative Mouse (Swiss webster): 87.5, 175, and 280 mg / kg
Methyl Oximino Silane	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data
Reproductive toxicity	
Amorphous, fumed silica	No data
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	NOAEL=500 mg/kg bw/day
Methyl Oximino Silane	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data
Specific target organ toxicity (single exposure)	
Amorphous, fumed silica	Short-term exposure may cause respiratory irritation.
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	No data
Methyl Oximino Silane	No data

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

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.
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	Rat:NOEAL 500mg/kg,0, 25, 125, and 500 mg/kg/day, Exposure period 28 days No effect.
Methyl Oximino Silane	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

Inhalation hazard

Amorphous, fumed silica	No data
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	No data
Methyl Oximino Silane	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity

Fish

Amorphous, fumed silica	No data
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	LC50 200 ㎎/ℓ 96 hr Lepomis macrochirus
Methyl Oximino Silane	LC50 0.00000975 ㎎/ℓ 96 hr etc
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

Shellfish

Amorphous, fumed silica	No data
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	EC50 90 ㎎/ℓ 48 hr Daphnia magna
Methyl Oximino Silane	LC50 0.0000179 ㎎/ℓ 48 hr etc
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

Algae

Amorphous, fumed silica	No data
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	ErC50 8.8 ㎎/ℓ 72 hr Selenastrum capricornutum
Methyl Oximino Silane	EC50 0.0000176 ㎎/ℓ 96 hr etc
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

12.2. Persistence and degradability

Persistence

Amorphous, fumed silica	No data
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	log Kow -1.67 ((Estimate))
Methyl Oximino Silane	(Not applicable)

Siloxanes and Silicones, di-Me, hydroxy-terminated	log Kow 2.43

degradability

Amorphous, fumed silica	No data
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	No data
Methyl Oximino Silane	(No data)
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

12.3. Bioaccumulation

Enrichment

Amorphous, fumed silica	No data
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	No data
Methyl Oximino Silane	BCF 8.49
Siloxanes and Silicones, di-Me, hydroxy-terminated	BCF 14.77

Biodegradability

Amorphous, fumed silica	No data
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	39 (%) 28 day
Methyl Oximino Silane	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

12.4. Soil mobility

Amorphous, fumed silica	No data
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	No data
Methyl Oximino Silane	No data
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data

12.5. Other harmful effects

Amorphous, fumed silica	No data
Lime stone	No data
N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	Underwater stability Half hour Less than 1 hour
Methyl Oximino Silane	No data
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	
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/OECDSIDS/silicates.pdf)(Specific target organ toxicity (single exposure))

Intermational 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)

Lime stone

N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane

OECD 401, EEC 67/548 1967)-79/831, OECD SIDS(Oral)

OECD SIDS(Percutaneous)

OECD TG 404 ,OECD SIDS(Skin corrosive or irritant)

OECD TG 405 OECD SIDS(Severe eye damage or irritation)
OECD TG406, OECD SIDS (1992)(Skin sensitization)
EPA Health Effect Test Guidelines, EPA Report 560/6-83-001, OECD SIDS(Germ cell mutagenicity)
EPA Health Effects Test Guidelines, OEC SIDS(Germ cell mutagenicity)
OECD TG 471, Directive 84/449/EEC(Germ cell mutagenicity)
OECD TG 422, OECD SIDS(Reproductive toxicity)
OECD TG 422; US EPA Guideline OPPTS 870.3650, OECD SIDS(Specific target organ toxicity (repeated exposure))
Static,EPA-660/3-75-009,SIDS(fish)
Static,OECD Guide-line 202,SIDS(shellfish)
OECD Guide-line 201,SIDS(Algae)
OECD SIDS(Biodegradable)
Methyl Oximino Silane
ECOSAR(fish)
ECOSAR(shellfish)
ECOSAR(Algae)
EPIWIN(Enrichment)
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	2012-09-24
16.3 Revision number and date	
Revision number	2 time
Revision Date	2017-06-29

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)