Material Safety Data Sheet

DATE : 2025. 2. 19.

Product name : SMP-FLEX MS55

1. Chemical Product & Company Info

A. Product name SMP-FLEX MS55

B. Recommended use and usage

Recommended use Adhesive & Sealant

Usage limitation Prohibited for use other than for restricted purposes

C. Supplier Information

Company name INTERKIM Dis Tic. Ltd. Sti.

Address Inönü Mah., Alpkaya Cad., Kestel Apt., No: 58/5, 34755, Icerenköy – Atasehir/Istanbul

Emergency phone number +90 (0216) 577 22 34 (2 lines)

D. Supplier Additional Information No Data

2. Hazard & Danger Identification

A. Classification of Hazard/Risk

Skin Sensitization : Category 1A

B. Warning sign including precautionary

Pictogram



Signal word warning

Hazard Statements H317: May cause an allergic skin reaction.
H302: Harmful if swallowed.
H320: Causes eye irritation.

Precautionary measure statements

Precaution P261 Avoid inhalation of dust, fume, gas, mist, steam, and spray.
P264 Wash the application area thoroughly after handling.
P270 Do not eat, drink or smoke when do you use this product.
P272 Do not take contaminated clothing out of the workplace.
P280 Wear protective gloves, protective clothing, safety glasses facial protection

Countermeasure P301+P312 If swallowed immediately go to Medical institution .
P302+P352 wash with plenty of water if it gets on your skin.
P305+P351+P338 Wash carefully with water for a few minutes if it gets on your eyes.
P321 Refer to the material safety and health data's first-aid instructions for treatment.
P330 Wash your mouth.
P333+P313 If skin irritation or erythema occurs, get medical advice/attention.
P337+P313 If eye irritation persists, get medical advice.
P362+P364 Remove contaminated clothing and wash it before using it again.

Dispose P501 Dispose of contents and containers (in accordance with relevant laws and regulations).

C. Other hazards and risks not included in the hazard and risk classification criteria (e.g. dust explosion risk)

No data

3. Name & content ingredients

Name of Material	Common name	CAS #	Identification #	Content(%)	
				range	sigle
Calcium carbonate	No data	471-34-1	KE-04487	40-50	No data
α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxymethylsilyl)propoxy]-poly[oxy(methyl-1,2-ethanediyl)]	No data	75009-88-0	KE-11081	20-30	No data
1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data	68515-48-0	KE-02208	10-20	No data
Lime stone	No data	1317-65-3	KE-21996	10-20	No data
Vinyltrimethoxysilane	No data	2768-02-7	KE-34395	1-10	No data
Aminoethyl-aminopropyl -trimethoxysilane	No data	1760-24-3	KE-34385	0.1-1	No data

4. First aid measures

A. Eye contact

Flush with running water for more than 20mins.
Take emergency medical treatment

B. Skin contact

Remove contaminated clothing and shoes and isolate contaminated.
Wash clothes and shoes thoroughly before reuse.
Take emergency medical treatment.
In case of contact with materials, flush skin with running water for more than 20mins.

C. Inhalation

Move to place with fresh air.
Take emergency medical treatment.
If you can not breathe, try artificial respiration.
If you feel hard to breathe, supply oxygen.

D. Swallowing

Take emergency medical treatment.
Do not feed to a unconscious person.

E. Precaution

Do not give adrenaline preparations
Medical crew should aware about the exposing material and do some measure for protection

5. Fire Fighting & Explosion Measures during fire fighting

A. Appropriate (and inappropriate) extinguishing materials

Small fire: dry sand, dry chemicals, alcohol-resistant foam, water spray, general foam, CO2 (appropriate extinguishing materials) High-pressure water (inappropriate extinguishing materials) Large fire: water spray/fog, general foam

(appropriate extinguishing materials)

B. Specific hazards arising from chemicals

May ignite by heat, spark, flame.
May be toxic when you inhale.
Containers may explode when heated
Highly toxic gases may be caused during burning
Some can burn but do not ignite easily
Some liquid generation vapors may cause dizziness or suffocation.

C. Protective equipment and precautions during firefighting

Be careful as it may melt and be transported.
Extinguish the fire by leaving the area and maintaining a safe distance.
In case of fire in a tank, move away from the tank in huge fire.
Move containers from fire area if you can do it without risk.
In case of fire in a tank, if there is a high-pitched sound from the pressure relief device or if the tank changes color, leave immediately.
In case of fire in a tank, use unmanned fire extinguishing equipment , if not possible to use it, let it burn.
In case of fire in a tank, cool the container with plenty of water even after the fire is extinguished.

6. Accidental release measures

A.Measures and protective equipment necessary to protect the human body

Prevent the formation of dust
Do not touch or walk around exposed objects
Pay attention to substances and conditions to be avoided
Stop leaking if it's not dangerous
Remove all ignition sources
Ventilate contaminated areas
Do not enter the space without proper protective equipment, such as an air respirator or an air supply mask, until adequate air (oxygen concentration 18 to 23.5%) is obtained.

B. Measures necessary to protect the environment

Prevent inflow into waterways, sewers, cellars, and enclosures

C. Methods of purification or removal

In case of small leakage, absorb sand and non-combustible material and place in a container
Make a ditch in case of a large leak, away from the liquid leak
In case of a small leak, wash out the contaminated area with a large amount of water
Cover it with a plastic sheet in case of powder leakage to prevent spread and keep it dry
Place the leak in a clean, dry container with a clean shovel, close it loosely, and move the container away from the leak area

7. Handling and storage

A. Handling

Using Engineering controls and personal protectives for working
Check the oxygen concentration before entering the place because there is a risk of loss of consciousness or death by causing oxygen deficiency in high concentrations in the air.
Wash thoroughly after handling
Pay attention to substances and conditions to be avoided
Use only in well-ventilated areas.
Be careful high temperatures

B. Secure storage methods (including conditions to avoid)

Pay attention to substances and conditions to be avoided
Keep it sealed
Store in a cool, dry place

8. Exposure Prevention / Personal protective gears

A. Chemical/ Biological exposure standard

Domestic regulation	Calcium carbonate - TWA : 10 mg/㎥ , STEL : -
	α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxymethylsilyl)propoxy]

s	-poly[oxy(methyl-1,2-ethanediyl)] - TWA : No data , STEL : No data
	1,2-Benzenedicarboxylic acid, di- C8-10-branched alkyl esters, C9-rich - TWA : No data , STEL : No data
	Lime stone - TWA : 10 mg/㎥ , STEL : -
	Vinyltrimethoxysilane - TWA : No data , STEL : No data
	Aminoethyl-aminopropyl-trimethoxysilane - TWA : No data , STEL : No data
ACGIH regulations	Calcium carbonate - TWA : No data , STEL : No data
	α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxymethylsilyl)propoxy] -poly[oxy(methyl-1,2-ethanediyl)] - TWA : No data , STEL : No data
	1,2-Benzenedicarboxylic acid, di- C8-10-branched alkyl esters, C9-rich - TWA : No data , STEL : No data
	Lime stone - TWA : No data , STEL : No data
	Vinyltrimethoxysilane - TWA : No data , STEL : No data
	Aminoethyl-aminopropyl-trimethoxysilane - TWA : No data, STEL : No data
Biological exposure regulations	Calcium carbonate - TWA : No data, STEL : No data
	α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxymethylsilyl)propoxy] -poly[oxy(methyl-1,2-ethanediyl)] - TWA : No data, STEL : No data
	1,2-Benzenedicarboxylic acid, di- C8-10-branched alkyl esters, C9-rich - TWA : No data, STEL : No data
	Lime stone - TWA : No data, STEL : No data
	Vinyltrimethoxysilane - TWA : No data, STEL : No data
	Aminoethyl-aminopropyl-trimethoxysilane - TWA : No data, STEL : No data
Other exposure regulations	Calcium carbonate - TWA : No data, STEL : No data
	α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxymethylsilyl)propoxy] -poly[oxy(methyl-1,2-ethanediyl)] - TWA : No data, STEL : No data
	1,2-Benzenedicarboxylic acid, di- C8-10-branched alkyl esters, C9-rich - TWA : No data, STEL : No data
	Lime stone - TWA : No data, STEL : No data
	Vinyltrimethoxysilane - TWA : No data, STEL : No data
	Aminoethyl-aminopropyl-trimethoxysilane - TWA : No data, STEL : No data

B. Engineering Controls

If dust, fume or mist is generated when driving, ventilate to keep air pollution below exposure standards.

Use process isolation, local exhaust to keep air levels below exposure limits.

C. Personal protective gears

Respiratory protection: Wear respiratory protection certified by the Korea Occupational Safety and Health Agency appropriate for the physical and chemical properties of the gas/liquid to which you are exposed.

Eyes protection: Wear safety glasses or ventilated goggles to protect your eyes from chemical materials
Install washing eyes facilities and emergency washing shower facilities

Hand protection: Wear protective gloves made of appropriate material considering the physical and chemical characteristics of the chemical.

Body protection: Wear protective clothing made of appropriate material considering the physical and chemical characteristics of the chemical.

9. Physicochemical properties

A. Product characteristics

	detail

A. Appearance(physical sate, color etc)	Appearance	Liquid
	color	colored
B. Odor		A little Odor
C. Odor threshold		no data
D. pH		no data
E. Melting point/freezing point		no data
F. Initial boiling point and boiling range		no data
G. Flash point		no data
H. Evaporation rate		no data
I. Flammability (solid, gas)		no data
J. Upper/lower flammable or explosive		no data
K. Vapor pressure		no data
L. Solubility		no data
M. Vapor density		no data
N. Specific gravity		no data
O. n-octanol/water		no data
P. Autoignition temperature		no data
Q. Decomposition temperature		no data
R. Viscosity		no data
S. Molecular weight		no data

B. Characteristics of each component

구성성분	구분		내용
Calcium carbonate	A. Appearance (physical sate, color etc)	Appearance	Liquid
		color	no data
	B. Odor		no data
	C. Odor threshold		no data
	D. pH		no data
	E. Melting point/freezing point		no data
	F. Initial boiling point and boiling range		no data
	G. Flash point		no data
	H. Evaporation rate		no data
	I. Flammability (solid, gas)		no data
	J. Upper/lower flammable or explosive		no data
	K. Vapor pressure		no data
	L. Solubility		no data
	M. Vapor density		no data
	N. Specific gravity		no data
	O. n-octanol/water		no data
	P. Autoignition temperature		no data
	Q. Decomposition temperature		no data
	R. Viscosity		no data
	S. Molecular weight		no data

α-[3-(Dimethoxymethylsilyl)propyl]--[3-(dimethoxymethylsilyl)propoxy]-poly[oxy(methyl-1,2-ethanediyl)]	A. Appearance (physical sate, color etc)	Appearance	solid(crystal)
		color	no data
	B. Odor		no data
	C. Odor threshold		no data
	D. pH		no data
	E. Melting point/freezing point		no data
	F. Initial boiling point and boiling range		no data
	G. Flash point		no data
	H. Evaporation rate		no data
	I. Flammability (solid, gas)		no data
	J. Upper/lower flammable or explosive		no data
	K. Vapor pressure		no data
	L. Solubility		no data
	M. Vapor density		no data
	N. Specific gravity		no data
	O. n-octanol/water		no data
	P. Autoignition temperature		no data
	Q. Decomposition temperature		no data
	R. Viscosity		no data
	S. Molecular weight		no data
1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	A. Appearance (physical sate, color etc)	Appearance	Liquid
		color	no data
	B. Odor		no data
	C. Odor threshold		no data
	D. pH		no data
	E. Melting point/freezing point		no data
	F. Initial boiling point and boiling range		no data
	G. Flash point		no data
	H. Evaporation rate		no data
	I. Flammability (solid, gas)		no data
	J. Upper/lower flammable or explosive		no data
	K. Vapor pressure		no data
	L. Solubility		no data
	M. Vapor density		no data
	N. Specific gravity		no data
	O. n-octanol/water		no data
	P. Autoignition temperature		no data
	Q. Decomposition temperature		no data
	R. Viscosity		no data
	S. Molecular weight		no data
Lime stone	A. Appearance (physical sate, color etc)	Appearance	Solid(powder)

		color	no data
	B. Odor		no data
	C. Odor threshold		no data
	D. pH		no data
	E. Melting point/freezing point		no data
	F. Initial boiling point and boiling range		no data
	G. Flash point		no data
	H. Evaporation rate		no data
	I. Flammability (solid, gas)		no data
	J. Upper/lower flammable or explosive		no data
	K. Vapor pressure		no data
	L. Solubility		no data
	M. Vapor density		no data
	N. Specific gravity		no data
	O. n-octanol/water		no data
	P. Autoignition temperature		no data
	Q. Decomposition temperature		no data
	R. Viscosity		no data
	S. Molecular weight		no data
Vinyltrimethoxysilane	A. Appearance (physical sate, color etc)	Appearance	Liquid
		color	no data
	B. Odor		no data
	C. Odor threshold		no data
	D. pH		no data
	E. Melting point/freezing point		no data
	F. Initial boiling point and boiling range		no data
	G. Flash point		no data
	H. Evaporation rate		no data
	I. Flammability (solid, gas)		no data
	J. Upper/lower flammable or explosive		no data
	K. Vapor pressure		no data
	L. Solubility		no data
	M. Vapor density		no data
	N. Specific gravity		no data
	O. n-octanol/water		no data
	P. Autoignition temperature		no data
	Q. Decomposition temperature		no data
	R. Viscosity		no data
	S. Molecular weight		no data
Aminoethyl-aminopropyl -trimethoxysilane	A. Appearance (physical sate, color etc)	Appearance	Liquid
		color	no data
	B. Odor		no data

	C. Odor threshold	no data
	D. pH	no data
	E. Melting point/freezing point	no data
	F. Initial boiling point and boiling range	no data
	G. Flash point	no data
	H. Evaporation rate	no data
	I. Flammability (solid, gas)	no data
	J. Upper/lower flammable or explosive	no data
	K. Vapor pressure	no data
	L. Solubility	no data
	M. Vapor density	no data
	N. Specific gravity	no data
	O. n-octanol/water	no data
	P. Autoignition temperature	no data
	Q. Decomposition temperature	no data
	R. Viscosity	no data
	S. Molecular weight	no data

10. Stability and Reactivity

A. Chemical stability and potential for hazardous reactions
Safe with recommended storage and handling
Some may burn but do not ignite easily.
Containers may explode when heated.
Non-flammable, the material does not burn, but may decompose when heated, generating corrosive/toxic
fumes.
In case of fire, irritating, corrosive and toxic gases may be generated.

B. Conditions to Avoid(spark, shock, vibration etc)
Ignition sources such as heat, sparks, flames, etc.

C. Materials to Avoid
Flammable material, reducible material

D. Harmful materials produced during decomposition
Corrosive/toxic fumes
Irritating, corrosive, toxic gas

11. Information on toxicity

A. Information about the likely exposure path

Contents	In case the product comes into contact with the eyes and skin, and ingested
Calcium carbonate	No data
α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxy methylsilyl)propoxy]-poly[oxy(methyl-1,2-ethanediyl)]	No data
1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
Lime stone	No data
Vinyltrimethoxysilane	No data
Aminoethyl-aminopropyl-trimethoxysilane	No data

Acute toxicity	Oral	Contents	
		Calcium carbonate	LD50 6450 mg/kg rat
		α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxy methylsilyl)propoxy]-poly[oxy(methyl-1,2-ethanediyl)]	No data
		1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
		Lime stone	No data
		Vinyltrimethoxysilane	LD50 11000 mg/kg bw rat
		Aminoethyl-aminopropyl-trimethoxysilane	LD50 1897 mg/kg bw rat
	Skin	Contents	No data
		Calcium carbonate	No data
		α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxy methylsilyl)propoxy]-poly[oxy(methyl-1,2-ethanediyl)]	No data
		1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
		Lime stone	No data
		Vinyltrimethoxysilane	LD50 3360 uL/kg rabbit
		Aminoethyl-aminopropyl-trimethoxysilane	LDLo 16 mL/kg rabbit

B. Health Hazard Information

Acute toxicity	inhalation	contents	No data
		Calcium carbonate	No data
		α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxy methylsilyl)propoxy]-poly[oxy(methyl-1,2-ethanediyl)]	No data
		1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
		Lime stone	No data
		Vinyltrimethoxysilane	LC50 2773 ppm rat
		No data	No data
skin corrosion or stimulation		contents	No data
		Calcium carbonate	No data
		α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxy methylsilyl)propoxy]-poly[oxy(methyl-1,2-ethanediyl)]	No data
		1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
		Lime stone	No data
		Vinyltrimethoxysilane	No data
		Aminoethyl-aminopropyl-trimethoxysilane	No data
Acute eye damage or Irritation		contents	No data
		Calcium carbonate	No data
		α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxy methylsilyl)propoxy]-poly[oxy(methyl-1,2-ethanediyl)]	No data
		1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
		Lime stone	No data
		Vinyltrimethoxysilane	No data
		Aminoethyl-aminopropyl-trimethoxysilane	No data
Respiratory hypersensitivity		contents	No data
		Calcium carbonate	No data

		α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxy methylsilyl)propoxy]-poly[oxy(methyl-1,2-ethanediyl)]	No data
		1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
		Lime stone	No data
		Vinyltrimethoxysilane	No data
		Aminoethyl-aminopropyl-trimethoxysilane	No data
skin sensitivity		contents	No data
		Calcium carbonate	No data
		α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxy methylsilyl)propoxy]-poly[oxy(methyl-1,2-ethanediyl)]	No data
		1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
		Lime stone	No data
		Vinyltrimethoxysilane	No data
		Aminoethyl-aminopropyl-trimethoxysilane	No data
carcinogenicity	IARC	No data	No data
		No data	No data
		No data	No data
		No data	No data
		No data	No data
		No data	No data
		No data	No data
carcinogenicity	NTP	contents	No data
		Calcium carbonate	No data
		α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxy methylsilyl)propoxy]-poly[oxy(methyl-1,2-ethanediyl)]	No data
		1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
		Lime stone	No data
		Vinyltrimethoxysilane	No data
		Aminoethyl-aminopropyl-trimethoxysilane	No data
	OSHA	contents	No data
		Calcium carbonate	No data
		α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxy methylsilyl)propoxy]-poly[oxy(methyl-1,2-ethanediyl)]	No data
		1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
		Lime stone	No data
		Vinyltrimethoxysilane	No data
		Aminoethyl-aminopropyl-trimethoxysilane	No data
	ACGIH	contents	No data
		Calcium carbonate	No data
		α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxy methylsilyl)propoxy]-poly[oxy(methyl-1,2-ethanediyl)]	No data
		1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data

		Lime stone	No data
		Vinyltrimethoxysilane	No data
		Aminoethyl-aminopropyl-trimethoxysilane	No data
	Industrial safety & Health Law	contents	No data
		Calcium carbonate	No data
		α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxy methylsilyl)propoxy]-poly[oxy(methyl-1,2-ethanediyl)]	No data
		1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
		Lime stone	No data
		Vinyltrimethoxysilane	No data
		Aminoethyl-aminopropyl-trimethoxysilane	No data
	Notification of Ministry of Employment and Labor	Contents	No data
		Calcium carbonate	No data
		α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxy methylsilyl)propoxy]-poly[oxy(methyl-1,2-ethanediyl)]	No data
		1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
		Lime stone	No data
		Vinyltrimethoxysilane	No data
		Aminoethyl-aminopropyl-trimethoxysilane	No data
	EU CLP	Contents	No data
		Calcium carbonate	No data
		α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxy methylsilyl)propoxy]-poly[oxy(methyl-1,2-ethanediyl)]	No data
		1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
		Lime stone	No data
		Vinyltrimethoxysilane	No data
		Aminoethyl-aminopropyl-trimethoxysilane	No data

germ cell mutagenicity	Contents	No data
	Calcium carbonate	No data
	α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxy methylsilyl)propoxy]-poly[oxy(methyl-1,2-ethanediyl)]	No data
	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
	Lime stone	No data
	Vinyltrimethoxysilane	No data
	Aminoethyl-aminopropyl-trimethoxysilane	No data
reproductive toxicity	Contents	No data
	Calcium carbonate	No data
	α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxy methylsilyl)propoxy]-poly[oxy(methyl-1,2-ethanediyl)]	No data
	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
	Lime stone	No data
	Vinyltrimethoxysilane	No data
	Aminoethyl-aminopropyl-trimethoxysilane	No data
Specific Target Organ	Contents	No data

Toxicity (One-time exposure)	Calcium carbonate	No data
	α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxy methylsilyl)propoxy]-poly[oxy(methyl-1,2-ethanediyl)]	No data
	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
	Lime stone	No data
	Vinyltrimethoxysilane	No data
	Aminoethyl-aminopropyl-trimethoxysilane	No data
Specific Target Organ Toxicity (Repeated exposure)	Contents	No data
	Calcium carbonate	No data
	α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxy methylsilyl)propoxy]-poly[oxy(methyl-1,2-ethanediyl)]	No data
	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
	Lime stone	No data
	Vinyltrimethoxysilane	No data
	Aminoethyl-aminopropyl-trimethoxysilane	No data
harmfulness of aspiration	Contents	No data
	Calcium carbonate	No data
	α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxy methylsilyl)propoxy]-poly[oxy(methyl-1,2-ethanediyl)]	No data
	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
	Lime stone	No data
	Vinyltrimethoxysilane	No data
	Aminoethyl-aminopropyl-trimethoxysilane	No data

12. Influence on Environment

A. ecotoxicity

Fishes	contents	No data
	Calcium carbonate	No data
	α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxymethylsilyl)propoxy] -poly[oxy(methyl-1,2-ethanediyl)]	No data
	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
	Lime stone	No data
	Vinyltrimethoxysilane	LC50 191 mg/L Oncorhynchus mykiss 96 h ECHA
	Aminoethyl-aminopropyl-trimethoxysilane	LC50 597 mg/L Danio rerio 96 h ECHA
crustacean	Contents	No data
	Calcium carbonate	No data
	α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxymethylsilyl)propoxy] -poly[oxy(methyl-1,2-ethanediyl)]	No data
	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	NOEC 0.0036 mg/L Daphnia magna 21 d
	Lime stone	No data
	Vinyltrimethoxysilane	EC10 0.2 mg/L Daphnia magna 21d ECHA

	Aminoethyl-aminopropyl-trimethoxysilane	EC50 81 mg/L Daphnia magna 48h ECHA
Birds	Contents	No data
	Calcium carbonate	NOEC 14 mg/L Desmodesmus subspicatus 72 h ECHA
	α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxymethylsilyl)propoxy] -poly[oxy(methyl-1,2-ethanediyl)]	No data
	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	NOEC 1.8 mg/L Pseudokirchneriella subcapitata 120 h
	Lime stone	No data
	Vinyltrimethoxysilane	EC50 210 mg/L Pseudokirchneriella subcapitata 7 d ECHA
	Aminoethyl-aminopropyl-trimethoxysilane	EC50 11 mg/L Pseudokirchneriella subcapitata 96 h ECHA

B.. Residual persistency and Decomposition

Residual persistency	Contents	No data
	Calcium carbonate	No data
	α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxymethylsilyl)propoxy] -poly[oxy(methyl-1,2-ethanediyl)]	No data
	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	7.4 log Pow(logP) 55 °C experimental study ECHA
	Lime stone	No data
	Vinyltrimethoxysilane	No data
	Aminoethyl-aminopropyl-trimethoxysilane	No data
Decomposition	contents	No data
	Calcium carbonate	No data
	α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxymethylsilyl)propoxy] -poly[oxy(methyl-1,2-ethanediyl)]	No data
	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
	Lime stone	No data
	Vinyltrimethoxysilane	No data
	Aminoethyl-aminopropyl-trimethoxysilane	No data

C. Bioconcentrability

concentrability	contents	No data
	Calcium carbonate	No data
	α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxymethylsilyl)propoxy] -poly[oxy(methyl-1,2-ethanediyl)]	No data
	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
	Lime stone	No data
	Vinyltrimethoxysilane	No data
	Aminoethyl-aminopropyl-trimethoxysilane	No data
biodegradability	contents	No data

	Calcium carbonate	No data
	α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxymethylsilyl)propoxy] -poly[oxy(methyl-1,2-ethanediyl)]	No data
	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
	Lime stone	No data
	Vinyltrimethoxysilane	No data
	Aminoethyl-aminopropyl-trimethoxysilane	No data

D. soil mobility

soil mobility	contents	No data
	Calcium carbonate	No data
	α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxymethylsilyl)propoxy] -poly[oxy(methyl-1,2-ethanediyl)]	No data
	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
	Lime stone	No data
	Vinyltrimethoxysilane	No data
	Aminoethyl-aminopropyl-trimethoxysilane	No data

E. other harmful effects

other harmful effects	Contents	No data
	Calcium carbonate	No data
	α-[3-(Dimethoxymethylsilyl)propyl]-ω-[3-(dimethoxymethylsilyl)propoxy] -poly[oxy(methyl-1,2-ethanediyl)]	No data
	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	No data
	Lime stone	No data
	Vinyltrimethoxysilane	No data
	Aminoethyl-aminopropyl-trimethoxysilane	No data

13. Precautions for disposal

A. Disposal method

Dispose the contents and containers according to the regulations when specified in the Waste Management Act.

B. Precautions for disposal (including disposal of contaminated containers and packaging)

14. Information required for transportation

A. United Nations Number

B. Appropriate shipping name of UN

C. Risk rating in transportation

D. Container rating (if applicable)

E. Marine pollutants (indicated in corresponding or not applicable)

F. Special safety measures that users need or need to know about transportation or means of transportation
Emergency measures in case of fire; No data
Emergency measures in case of leakage; No data

15. Status of legal regulations

A. Regulations under the Occupational Safety and Health Act
No data

B. Regulation under the Chemical Substances Control Act
No data

C. Regulations under the Dangerous Goods Safety Management Act
No data

D. Regulation under the Waste Management Act
When disposing of waste generated from workplace, it must be treated in accordance with the waste treatment standards under Article 13 of the Waste Management Act.

E. Other regulations under domestic and foreign laws
domestic regulation; No data
foreign regulation; No data

6. Other References

A. Source of data
No data

B. Date of initial issue
2025-02-19

C. No. of revisions and date of last revision
No. of revision:
Last Revision Date: 2025-02-19

D. This MSDS is prepared in consideration of the current status of domestic regulatory laws and regulations based on Article 110 of the Occupational Safety and Health Act and the Ministry of Employment and Labor Notice No. 2020-130 (Standards on Classification, Indication of Chemical Substances and Material Safety Data). This MSDS is prepared based on the currently available DB to protect the health, environment and safety of workers and users.