SAFETY DATA SHEET (EC 1907/2006) ADDSiLTM 16196

Version 7.1S Pac

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Revision Date 14.04.2024

SECTION 1: Identification of the substance/mixture and of the company

Product Identifier	
Product Name:	ADDSiL™ 16196
Relevant identified uses of the sub	ostance or mixture and uses advised against
Relevant applications identified	For industrial use
Details of the supplier of the safety	y data sheet
Company	Nanjing SiSiB Silicones Co., Ltd.
	Guanghua Sci & Tech Industrial Zone,
	No. 104, Guanghua Road, Nanjing 210007, P.R.China
	Email: SDS@SiSiB.com
Emergency Telephone Number:	+86-25-8468-0091

SECTION 2: Hazardous identification

Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

Classification (REGULATION (EC) No 1272/2008)

Not classified.

Label ElementsLabelling according to Regulation (EC) No 1272/2008:Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.Other hazardsNo data available.

SECTION 3: Composition/information on ingredients

Chemical nature	Polyether modified polysiloxane copolymer
Mixture	
General information	No data available.

Chemical name	CAS No.	EC-No.	Concentration	Notes
Siloxane Polyalkyleneoxide Copolymer	68937-55-3	/	70-50	
Polyalkylene Oxide	9041-33-2	/	30-50	
Octamethylcyclotetrasiloxane	556-67-2	209-136-7	≥0.1-1.0≤	PBT, vPvB
Decamethylpentasiloxane	541-02-6	208-764-9	≥0.1-1.0≤	vPvB
Dodecamethylcyclohexasiloxane	540-97-6	208-762-8	≥0.1-1.0≤	vPvB

All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by



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volume.

This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Classification	Notes
Octamethylcyclotetrasiloxane	Flam. Liq.: 3: H226; Repr.: 2: H361f; Aquatic Chronic: 2: H411;	No data available.
Decamethylpentasiloxane	No data available.	
Dodecamethylcyclohexasiloxane	No data available.	

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

General advice

If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Description of first aid measures

If inhaled

Move into fresh air and keep at rest. Get medical attention if symptoms occur.

In case of eye contact

Get medical attention if symptoms occur. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

In case of skin contact

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if symptoms occur.

If swallowed

Do not induce vomiting. Get medical attention immediately. Do not give victim anything to drink if he is unconscious. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms and effects, both acute and delayed

Unknown.

Indication of any immediate medical attention and special treatment needed

Hazards

No information about adverse effects due to exposure.

Treatment

If swallowed, do not induce vomiting. Give a glass of water.

SECTION 5: Firefighting measures

General Fire Hazards





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Do not use water jet as an extinguisher, as this will spread the fire. Use water spray to keep fire-exposed containers cool.

Extinguishing media

Suitable extinguishing media

Alcohol resistant foam. Carbon dioxide Dry chemical.

Unsuitable extinguishing media

Avoid water in straight hose stream; will scatter and spread fire.

Special hazards arising from the substance or mixture

In case of fire, carbon monoxide and carbon dioxide may be formed.

Advice for firefighters

Special fire fighting procedures

Take precautionary measures against static discharges. To prevent and minimize fire or explosion risk from static accumulation and discharge, effectively bond and/or ground product transfer system.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes, skin and clothing. Avoid contact with liquid and vapors. Use personal protective equipment. Use only in well-ventilated areas.

Environmental precautions

Do not allow runoff to sewer, waterway or ground.

Methods and materials for containment and clean up

Absorb spillage with suitable absorbent material. Shovel up and place in a container for salvage or disposal.

Reference to other sections

Remove sources of ignition. In case of spills, beware of slippery floors and surfaces. See Section 8 of the SDS for Personal Protective Equipment. Collect and dispose of spillage as indicated in section 13 of the SDS.

SECTION 7: Handling and storage

Precautions for safe handling

Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Wash hands after handling. Provide adequate ventilation. Avoid inhalation of dust and vapors.

Storage conditions

Keep container tightly closed. Keep away from sources of ignition - No smoking. Do not allow material to freeze.



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Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Keep away from sources of ignition - No smoking.

Storage Stability

Material is stable under normal conditions.

Specific end use(s)

No data available.

SECTION 8: Exposure Controls/Personal Protection

Control parameters

Exposure controls

Occupational exposure limits Biological Limit Values None of the components have assigned exposure limits. None.

Eyewash bottle with clean water.

Appropriate Engineering Controls

No special requirements under ordinary conditions of use and with adequate ventilation. Use only in well-ventilated areas.

Individual protection measures, such as personal protective equipment

General information

Use only in well-ventilated areas. Do not eat, drink or smoke when using the product. Wash hands after handling. Practice good housekeeping.

Eye/face protection

Safety glasses with side-shields conforming to EN166.

Skin protection Hand Protection

There is no risk to health due to contact with the chemical. Use hand protection to prevent mechanically injuries.

Other

Safety shoes Long sleeves.

Respiratory Protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures

Observe good industrial hygiene practices. Wash hands after handling. When using do not eat, drink or smoke. Provide adequate ventilation.

Environmental exposure controls

No release to wastewater from process. The wastewater emissions limited to release generated from final equipment cleaning step using water.

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties Appearance



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Physical state:	Liquid		
Color:	Colorless/Yellow		
Odor:	Polyether		
Odor threshold:	No data available		
pH:	No data available		
Freezing point:	No data available		
Boiling point:	No data available		
Flash point:	No data available		
Evaporation rate:	No data available		
Flammability (solid, gas):	No data available		
Upper/lower flammability:	No data available		
Explosive limits:	No data available		
Vapor pressure:	No data available		
Vapor density (air=1):	Heavier than air		
Relative density:	No data available		
Density:	1.00-1.04g/cm ³ (25°0	C)	
Solubility in water:	Soluble		
Solubility (other):	No data available		
Partition coefficient			
(n-octanol/water) Log Pow:	No data available		
Auto-ignition temperature:	No data available		
Decomposition temperature	e: Material is stable und	der normal conditions.	
SADT	No data available		
Viscosity:	650-1150 mPa.s/25°	С	
Explosive properties:	No data available		
Oxidizing properties:	No classified as oxid	izing	

SECTION 10: Stability And Reactivity

Reactivity	No data available.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous reactions will not occur.
Conditions to avoid	Unknown.
Incompatible materials	Inorganic halides. Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides of silicon. Measurements at temperatures above
	150°C in presence of air (oxygen) have shown that small amounts
	of formaldehyde are formed due to oxidative degradation.

SECTION 11: Toxicological Information

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OctamethylcyclotetrasiloxaneLD 50 (Rat): > 2.400 mg/kgDecamethylpentasiloxaneLD 50 (Ratbit): > 15.000 mg/kgDodecamethylcyclohexasiloxaneLD 50 (Rat): 2.000 mg/kgInhalationLD 50 (Rat): 2.000 mg/kgProductNot classified for acute toxicity based on available data.Specified substance(s)CotamethylcyclotetrasiloxaneOctamethylcyclotetrasiloxaneLC50 (Rat, 4 h): 36 mg/lDecamethylpentasiloxaneNo data available.DodecamethylcyclohexasiloxaneNo data available.ProductNo data available.Specified substance(s)No data available.OctamethylcyclotetrasiloxaneNo data available.Specified substance(s)No data available.OctamethylcyclotetrasiloxaneNo Aata available.Specified substance(s)No AEL Rat (male and female), Inhalation – vapor (vapour): 150 mg/l Rabbit (male and female), Dermal: 950 mg/kgDecamethylpentasiloxaneNo AEL Rat (male and female), Oral: 1.000 mg/kgSkin corrosion/irritationVECD-Guideline 404 (Acute Dermal Irritation/Corrosion)			OECD-Guideline 4	02 (Acute Dermal Toxicity) Not classified
DecamethylpentasiloxaneLD 50 (Rabbit): > 15.000 mg/kgDodecamethylcyclohexasiloxaneLD 50 (Rat): 2.000 mg/kgInhalationProductProductNot classified for acute toxicity based on available data.Specified substance(s)CotamethylcyclotetrasiloxaneOctamethylcyclotetrasiloxaneLC50 (Rat, 4 h): 36 mg/lDecamethylcyclohexasiloxaneNo data available.DodecamethylcyclohexasiloxaneNo data available.ProductNo data available.Specified substance(s)No data available.OctamethylcyclotetrasiloxaneNo data available.Specified substance(s)No AELOctamethylcyclotetrasiloxaneNOAELRat (male and female), Inhalation – vapor (vapour): 150 mg/kgDecamethylpentasiloxaneNo data available.Specified substance(s)No data available.OctamethylpentasiloxaneNOAELRat (male and female), Dermal: 950 mg/kgDecamethylpentasiloxaneNo data available.DodecamethylcyclohexasiloxaneNOAELRat (male and female), Oral: 1.000 mg/kgSkin corrosion/irritationOECD-Guideline 404 (Acute Dermal Irritation/Corrosion)	Specified substance(s)			
DodecamethylcyclohexasiloxaneLD 50 (Rat): 2.000 mg/kgInhalationNot classified for acute toxicity based on available data.ProductNot classified for acute toxicity based on available data.Specified substance(s)C50 (Rat, 4 h): 36 mg/lOctamethylcyclotetrasiloxaneLC50 (Rat, 4 h): 36 mg/lDecamethylpentasiloxaneNo data available.DodecamethylcyclohexasiloxaneNo data available.ProductNo data available.Specified substance(s)No data available.OctamethylcyclotetrasiloxaneNOAELRat (male and female), Inhalation – vapor (vapour): 150 mg/l Rabbit (male and female), Dermal: 950 mg/kgDecamethylpentasiloxaneNOAELDodecamethylcyclohexasiloxaneNo data available.Specified substance(s)No data available.OctamethylcyclohexasiloxaneNOAELRat (male and female), Dermal: 950 mg/kgDecamethylpentasiloxaneNo data available.DodecamethylcyclohexasiloxaneNOAELRat (male and female), Oral: 1.000 mg/kgSkin corrosion/irritationECD-Guideline 404 (Acute Dermal Irritation/Corrosion)	Octamethylcyclotetrasiloxane	•	LD 50 (Rat): > 2.40	00 mg/kg
InhalationNot classified for acute toxicity based on available data.ProductNot classified for acute toxicity based on available data.Specified substance(s)C50 (Rat, 4 h): 36 mg/lOctamethylcyclotetrasiloxaneNo data available.DodecamethylcyclohexasiloxaneNo data available.Repeated dose toxicityNo data available.ProductNo data available.Specified substance(s)No AELOctamethylcyclotetrasiloxaneNOAELRat (male and female), Inhalation – vapor (vapour): 150 mg/l Rabbit (male and female), Dermal: 950 mg/kgDecamethylcyclohexasiloxaneNoAELRat (male and female), Oral: 1.000 mg/kgSkin corrosion/irritationOECD-Guideline 404 (Acute Dermal Irritation/Corrosion)	Decamethylpentasiloxane		LD 50 (Rabbit): > 1	15.000 mg/kg
ProductNot classified for acute toxicity based on available data.Specified substance(s)C50 (Rat, 4 h): 36 mg/lOctamethylcyclotetrasiloxaneLC50 (Rat, 4 h): 36 mg/lDecamethylpentasiloxaneNo data available.DodecamethylcyclohexasiloxaneNo data available.ProductNo data available.Specified substance(s)No data available.OctamethylcyclotetrasiloxaneNOAELRat (male and female), Inhalation – vapor (vapour): 150 mg/l Rabbit (male and female), Dermal: 950 mg/kgDecamethylpentasiloxaneNo data available.DodecamethylcyclohexasiloxaneNo data available.ProductNo data available.Stin corrosion/irritationCECD-Guideline 404 (Acute Dermal Irritation/Corrosion)	Dodecamethylcyclohexasilox	ane	LD 50 (Rat): 2.000	mg/kg
Specified substance(s)LC50 (Rat, 4 h): 36 mg/lOctamethylcyclotetrasiloxaneNo data available.DecamethylcyclohexasiloxaneNo data available.Repeated dose toxicityNo data available.ProductNo data available.Specified substance(s)NOAELOctamethylcyclohexasiloxaneNOAELRat (male and female), Inhalation – vapor (vapour): 150 mg/kgDecamethylcyclohexasiloxaneNo data available.Specified substance(s)Rat (male and female), Dermal: 950 mg/kgDecamethylcyclohexasiloxaneNo AELRabit (male and female), Dermal: 950 mg/kgRat (male and female), Oral: 1.000 mg/kgSkin corrosion/irritationOECD-Guideline 404 (Acute Dermal Irritation/Corrosion)	Inhalation			
OctamethylcyclotetrasiloxaneLC50 (Rat, 4 h): 36 mg/lDecamethylpentasiloxaneNo data available.DodecamethylcyclohexasiloxaneNo data available.Repeated dose toxicityProductProductNo data available.Specified substance(s)NOAELOctamethylcyclotetrasiloxaneNOAELRat (male and female), Inhalation – vapor (vapour): 150 mg/kgDecamethylpentasiloxaneNo data available.DodecamethylcyclohexasiloxaneNo AELRat (male and female), Dermal: 950 mg/kgDecamethylpentasiloxaneNo AELRat (male and female), Oral: 1.000 mg/kgSkin corrosion/irritationOECD-Guideline 404 (Acute Dermal Irritation/Corrosion)	Product		Not classified for a	cute toxicity based on available data.
DecamethylpentasiloxaneNo data available.DodecamethylcyclohexasiloxaneNo data available.Repeated dose toxicityNo data available.ProductNo data available.Specified substance(s)NOAELOctamethylcyclotetrasiloxaneNOAELRat (male and female), Inhalation – vapor (vapour): 150 mg/kRabbit (male and female), Dermal: 950 mg/kgDecamethylpentasiloxaneNOAELRat (male and female), Oral: 1.000 mg/kgSkin corrosion/irritationProductOECD-Guideline 404 (Acute Dermal Irritation/Corrosion)	Specified substance(s)			
DodecamethylcyclohexasiloxaneNo data available.Repeated dose toxicityNo data available.ProductNo data available.Specified substance(s)NOAELOctamethylcyclotetrasiloxaneNOAELRat (male and female), Inhalation – vapor (vapour): 150 mg/kgDecamethylpentasiloxaneNo data available.DodecamethylcyclohexasiloxaneNOAELRat (male and female), Dermal: 950 mg/kgDecamethylpentasiloxaneNo data available.DodecamethylcyclohexasiloxaneNOAELRat (male and female), Oral: 1.000 mg/kgSkin corrosion/irritationOECD-Guideline 404 (Acute Dermal Irritation/Corrosion)	Octamethylcyclotetrasiloxane)	LC50 (Rat, 4 h): 36	6 mg/l
Repeated dose toxicityProductNo data available.Specified substance(s)NOAELOctamethylcyclotetrasiloxaneNOAELRat (male and female), Inhalation – vapor (vapour): 150 mg/kgDecamethylpentasiloxaneNo data available.DodecamethylcyclohexasiloxaneNOAELRat (male and female), Dermal: 950 mg/kgDecamethylpentasiloxaneNo data available.DodecamethylcyclohexasiloxaneNOAELRat (male and female), Oral: 1.000 mg/kgSkin corrosion/irritationOECD-Guideline 404 (Acute Dermal Irritation/Corrosion)	Decamethylpentasiloxane		No data available.	
ProductNo data available.Specified substance(s)NOAELOctamethylcyclotetrasiloxaneNOAELRat (male and female), Inhalation – vapor (vapour): 150 mg/kgDecamethylpentasiloxaneNo data available.DodecamethylcyclohexasiloxaneNo data available.DodecamethylcyclohexasiloxaneNOAELRat (male and female), Oral: 1.000 mg/kgSkin corrosion/irritationOECD-Guideline 404 (Acute Dermal Irritation/Corrosion)	Dodecamethylcyclohexasilox	ane	No data available.	
Specified substance(s)NOAELOctamethylcyclotetrasiloxaneNOAELRat (male and female), Inhalation – vapor (vapour): 150 mg/kRabbit (male and female), Dermal: 950 mg/kgDecamethylpentasiloxaneNo data available.DodecamethylcyclohexasiloxaneNOAELRat (male and female), Oral: 1.000 mg/kgSkin corrosion/irritationOECD-Guideline 404 (Acute Dermal Irritation/Corrosion)	Repeated dose toxicity			
OctamethylcyclotetrasiloxaneNOAEL Rat (male and female), Inhalation – vapor (vapour): 150 mg/kg Rabbit (male and female), Dermal: 950 mg/kgDecamethylpentasiloxaneNo data available.DodecamethylcyclohexasiloxaneNOAEL Rat (male and female), Oral: 1.000 mg/kgSkin corrosion/irritationOECD-Guideline 404 (Acute Dermal Irritation/Corrosion)	Product		No data available.	
Rat (male and female), Inhalation – vapor (vapour): 150 mg/k Rabbit (male and female), Dermal: 950 mg/kgDecamethylpentasiloxaneNo data available.DodecamethylcyclohexasiloxaneNOAEL Rat (male and female), Oral: 1.000 mg/kgSkin corrosion/irritationOECD-Guideline 404 (Acute Dermal Irritation/Corrosion)	Specified substance(s)			
Rabbit (male and female), Dermal: 950 mg/kgDecamethylpentasiloxaneNo data available.DodecamethylcyclohexasiloxaneNOAEL Rat (male and female), Oral: 1.000 mg/kgSkin corrosion/irritationOECD-Guideline 404 (Acute Dermal Irritation/Corrosion)	Octamethylcyclotetrasiloxane)	NOAEL	
Decamethylpentasiloxane No data available. Dodecamethylcyclohexasiloxane NOAEL Rat (male and female), Oral: 1.000 mg/kg Skin corrosion/irritation Product OECD-Guideline 404 (Acute Dermal Irritation/Corrosion)			Rat (male and fem	ale), Inhalation – vapor (vapour): 150 mg/l
Dodecamethylcyclohexasiloxane NOAEL Rat (male and female), Oral: 1.000 mg/kg Skin corrosion/irritation Product OECD-Guideline 404 (Acute Dermal Irritation/Corrosion)			Rabbit (male and f	emale), Dermal: 950 mg/kg
Rat (male and female), Oral: 1.000 mg/kg Skin corrosion/irritation Product OECD-Guideline 404 (Acute Dermal Irritation/Corrosion)	Decamethylpentasiloxane		No data available.	
Skin corrosion/irritationProductOECD-Guideline 404 (Acute Dermal Irritation/Corrosion)	Dodecamethylcyclohexasilox	ane	NOAEL	
Skin corrosion/irritationProductOECD-Guideline 404 (Acute Dermal Irritation/Corrosion)			Rat (male and fem	ale), Oral: 1.000 mg/kg
Product OECD-Guideline 404 (Acute Dermal Irritation/Corrosion)	Skin corrosion/irritation			
			OECD-Guideline 4	04 (Acute Dermal Irritation/Corrosion)
				· · · · · ·
Specified substance(s)				



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Octamethylcyclotetrasiloxar	ne OFCD-Guide	eline 404 (Acute Dermal Irritation/Corrosion)		
Octamentyleyelotenasiloxal	Rat: No skin			
Decamethylpentasiloxane	No data avai			
Dodecamethylcyclohexasilc		eline 404 (Acute Dermal Irritation/Corrosion)		
Doubbarnotinyloybionoxabile		No skin irritation.		
Serious Eye Damage/Eye				
Product	No data avai			
Specified substance(s)				
Octamethylcyclotetrasiloxar	ne OECD-Guide	eline 405 (Acute Eye Irritation/Corrosion)		
	Rabbit: Not i			
Decamethylpentasiloxane	Rabbit: No e	ye irritation		
Dodecamethylcyclohexasilc	oxane OECD-Guide	eline 405 (Acute Eye Irritation/Corrosion)		
	Rabbit, 72 h	No eye irritation, No irritating		
Respiratory or Skin Sensi	itization			
Product	No data avai	lable.		
Specified substance(s)				
Octamethylcyclotetrasiloxar	ne OECD-Guide	OECD-Guideline 406 (Skin Sensitisation)		
	Guinea Pig:	Guinea Pig: Not sensitizing		
Decamethylpentasiloxane	No data avai	No data available.		
Dodecamethylcyclohexasilo	oxane Maximisation	n Test, OECD-Guideline 406 (Skin Sensitisation)		
	Guinea Pig:	Guinea Pig: negative,		
Germ Cell Mutagenicity				
In vitro				
Product		OECD-Guideline 471)		
		icology: Salmonella typhimurium,		
	Reverse Mut	Reverse Mutation Assay: negative (not mutagenic)		
Specified substance(s)	/			
Octamethylcyclotetrasiloxar	,	OECD-Guideline 471)		
		icology: Salmonella typhimurium,		
		tation Assay: negative (not mutagenic)		
		ohoma Assay (OECD Guidline 476):		
Decomethylperteeileyere	negative (no			
Decamethylpentasiloxane	No data avai			
Dodecamethylcyclohexasilc		OECD-Guideline 471) icology: Salmonella typhimurium,		
		tation Assay: negative		
In vivo		auon Assay. Negalive		
Product	No data avai	ilable		
Specified substance(s)				
Octamethylcyclotetrasiloxar	ne Chromosom	al aberration (OECD-Guideline 474)		
Columbinyloyololollabiloval				



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	Genetic Tox	icology: Micronucleus Test		
		Rat, male and female): negative		
		thal assay (OECD 478)		
		ale and female): negative		
Decamethylpentasiloxane	No data ava	· -		
Dodecamethylcyclohexasilc				
		icology: Micronucleus Test		
		eline 474 (Genetic Toxicology): Micronucleus Test		
		eal (Mouse, male and female): negative		
Carcinogenicity				
Product	No data ava	ilable.		
Specified substance(s)				
Octamethylcyclotetrasiloxar	ne No data ava	ilable.		
Decamethylpentasiloxane	No data ava	ilable.		
Dodecamethylcyclohexasilc	oxane No data ava	ilable.		
Reproductive toxicity				
Product	No data ava	ilable.		
Specified substance(s)				
Octamethylcyclotetrasiloxar	ne No data ava	ilable.		
Decamethylpentasiloxane	No data ava	ilable.		
Dodecamethylcyclohexasilc	oxane No data ava	ilable.		
Specific Target Organ Tox	kicity - Single Exposu	re		
Product	No data ava	ilable.		
Specified substance(s)				
Octamethylcyclotetrasiloxar	ne No data ava	ilable.		
Decamethylpentasiloxane	No data ava	No data available.		
Dodecamethylcyclohexasilc	oxane No data ava	ilable.		
Specific Target Organ Tox	kicity - Repeated Expo	osure		
Product	No data ava	ilable.		
Specified substance(s)				
Octamethylcyclotetrasiloxar				
Decamethylpentasiloxane		No data available.		
Dodecamethylcyclohexasilc	oxane No data ava	ilable.		
Aspiration Hazard				
Product	No data ava	ilable.		
Specified substance(s)				
Octamethylcyclotetrasiloxar				
Decamethylpentasiloxane	No data ava			
Dodecamethylcyclohexasilc	oxane No data ava	ilable.		



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Octamethylcyclotetrasiloxane (D4) Ingestion: Rodents given large doses via oral gavage of Octamethylcyclotetrasiloxane (1600mg/kg/day, 14 days), developed increased liver weights relative to unexposed control animals due to hepatocellular hyperplasia (increased number of liver cells which appear normal) as well as hypertrophy (increased cell size). Inhalation: In inhalation studies, laboratory rodents exposed to Octamethylcyclotetrasiloxane (300 ppm five days/week, 90 days) developed increased liver weights in female animals relative to unexposed control animals. When the exposure was stopped, liver weights returned to normal. Microscopic examination of the liver cells did not show any evidence of pathology. This response in rats, which does not affect the animal's health, is well-documented and widely recognized. It is related to an increase of liver enzymes that metabolize and eliminate a material from the body. The increased liver weight reverses even while the D4 exposure continues. The finding is not adverse, but is considered a natural adaptive change in rats, and does not represent a hazard to humans. Inhalation studies utilizing laboratory rabbits and guinea pigs showed no effects on liver weights. Inhalation exposures typical of industrial usage (5-10 ppm) showed no toxic effects in rodents. Range finding reproductive studies were conducted (whole body inhalation, 70 days prior to mating, through mating, gestation and lactation), with D4. Rats were exposed to 70 and 700 ppm. In the 700 ppm group, there was a statistically significant reduction in mean litter size and in implantation sites. No D4 related clinical signs were observed in the pups and no exposure related pathological findings were found. A two-year, combined chronic/carcinogenicity study, during which rats were exposed to D4 by inhalation, data showed a statistically significant increase in a benign uterine tumor in female rats exposed at the highest level—a level much higher than the low levels that consumers or workers may encounter. An expert panel of independent scientists who have reviewed the results of this research concur that the finding seen in the two-year study occurred through a biological pathway that is specific to the rat and is not relevant to humans. Therefore, this observed effect does not indicate a potential health hazard to humans. In developmental toxicity studies, rats and rabbits were exposed to D4 at concentrations up to 700 ppm and 500 ppm, respectively. No teratogenic effects (birth defects) were observed in either study.

SECTION 12: Ecological Effects

Toxicity	
Acute toxicity	
Fish	
Product	No data available.
Specified substance(s)	
Octamethylcyclotetrasiloxane	No data available.
Decamethylpentasiloxane	Oncorhynchus mykiss, 14 d: > 16 mg/l
	NOEC (Oncorhynchus mykiss, 14 d): 16 mg/l
Dodecamethylcyclohexasiloxane	No data available.
Aquatic invertebrates	
Product	No data available.



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Specified substance(s)					
Octamethylcyclotetrasiloxa	ane No data ava	ilable.			
Decamethylpentasiloxane		No data available.			
Dodecamethylcyclohexasi					
Chronic Toxicity					
Fish					
Product	No data ava	ilable.			
Specified substance(s)					
Octamethylcyclotetrasiloxa	ane No data ava	No data available.			
Decamethylpentasiloxane	No data ava	No data available.			
Dodecamethylcyclohexasi	loxane NOEC (Pime	ephales promelas, 49 d): 0,0044 mg/l			
Aquatic Invertebrates					
Product	No data ava	ilable.			
Specified substance(s)					
Octamethylcyclotetrasiloxa	ane No data ava	No data available.			
Decamethylpentasiloxane	No data ava	No data available.			
Dodecamethylcyclohexasi	loxane NOEC (Dapl	hnia magna, 21 d): 0,0046 mg/l			
	EC50 (Sedir	nent Invertebrate, 28 d): > 420 mg/l			
	LOEC (Sedi	ment Invertebrate, 28 d): >= 420 mg/l			
Toxicity to Aquatic Plant	s Product				
Product	No data ava	ilable.			
Specified substance(s)					
Octamethylcyclotetrasiloxa	ane No data ava	No data available.			
Decamethylpentasiloxane	No data ava	ilable.			
Dodecamethylcyclohexasi		e (Pseudokirchneriella subcapitata), 72 h) : >0.002m			
	•	Guideline 201)			
		e (Pseudokirchneriella subcapitata), 72 h): > 0.002m			
	•	: Guideline 201)			
Persistence and Degrad	ability				
Biodegradation					
Product	No data ava	ilable.			
Specified substance(s)					
Octamethylcyclotetrasiloxa		eady Biodegradability - CO_2 in Sealed Vessels			
		(Headspace Test): 3.7% Persistent Not readily biodegradable.			
Decamethylpentasiloxane		No data available.			
Dodecamethylcyclohexasi	loxane No data avai	liadie.			
BOD/COD Ratio	NI. 1.(
Product	No data ava	liadie.			
Specified substance(s)	.	9-11-			
Octamethylcyclotetrasiloxa	ane No data ava	liadie.			



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Decamethylpentasiloxane		No data available.			
Dodecamethylcyclohexasilo	oxane	No data available.			
Bioaccumulative potentia	l				
Product		No data available.			
Specified substance(s)					
Octamethylcyclotetrasiloxane		Fathead Minnow, Bio	oconcentration Factor (BCF): 12,40		
Decamethylpentasiloxane		No data available.			
Dodecamethylcyclohexasiloxane		No data available.			
Mobility in soil		No data available.			
Known or predicted distri	bution to	environmental comp	partments		
Octamethylcyclotetrasiloxane		No data available.			
Decamethylpentasiloxane		No data available.			
Dodecamethylcyclohexasiloxane		No data available.			
Results of PBT and vPvB	assessm	ent			

Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB)

Octamethylcyclotetrasiloxane

Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) Octamethylcyclotetrasiloxane (D4) meets the current EU REACH Annex XIII criteria for PBT and vPvB and has been added to the candidate list for Substances of very high concern (SVHC). However, D4 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by naturally occurring reactions in the atmosphere. Any D4 in air that does not degrade by these reactions is not expected to deposit from the air to water, to land, or to living organisms.

Decamethylpentasiloxane

vPvB: very Persistent and very Bioaccumulative substance

Decamethylcyclopentasiloxane (D5) meets the current EU REACH Annex XIII criteria for vPvB and has been added to the candidate list for Substances of very high concern (SVHC). However, D5 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D5 is not biomagnifying in aquatic and terrestrial food webs. D5 in air will degrade by naturally occurring reactions in the atmosphere. Any D5 in air that does not degrade by these reactions is not expected to deposit from the air to water, to land, or to living organisms.

Dodecamethylcyclohexasiloxane

vPvB: very Persistent and very Bioaccumulative substance

Dodecamethylcyclohexasiloxane (D6) meets the current EU REACH Annex XIII criteria for vPvB and has been added to the candidate list for Substances of very high concern (SVHC). However, D6 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D6 is not biomagnifying in aquatic and terrestrial food webs. D6 in air will degrade by naturally occurring reactions in the atmosphere.



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Any D6 in air that does not degrade by these reactions is not expected to deposit from the air to water, to land, or to living organisms.

Other adverse effects

No data available.

SECTION 13:Disposal considerations

Waste treatment methods

General information	No data available.
Disposal methods	Can be incinerated when in compliance with local regulations.

SECTION 14: Transport Information

ADR	Not regulated.
AND	Not regulated.
RID	Not regulated.
IMDG	Not regulated.
ΙΑΤΑ	Not regulated.

Special precautions for user

This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods. Keep away from foodstuffs and animal feed.

Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

SECTION 15:Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer

None

Regulation (EC) No. 850/2004 on persistent organic pollutants

None

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals

None

Regulation (EC) No.1907/2006, REACH Annex XIV Substances subject to authorization,

as amended

None

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC)

Chemical name	CAS-No.	Concentration
Octamethylcyclotetrasiloxane	556-67-2	0 - <=0.8%



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Decamethylpentasiloxane		541-02-6			0 - <=0.5%.		
Dodecamethylcyclohexasiloxane		540-	540-97-6			0 - <=0.3%	%.
Chemical safety assess							
No Chemical Safety Asses	ssment ha	s been carried ou	ut.				
Inventory Status							
Australia AICS		On or in comp	On or in compliance with the inventory Remarks: None.				
Canada DSL Inventory L	ist	On or in comp	liance v	vith the i	nventory	Remarks: No	ne.
EINECS, ELINCS or NLP		On or in comp	liance v	vith the i	nventory	Remarks: No	ne.
Japan (ENCS) List		On or in comp	On or in compliance with the inventory Remarks: None.				
China Inv. Existing Chen	nical	On or in compliance with the inventory Remarks: None.					
Substances							
Korea Existing Chemica	ls	On or in comp	liance v	vith the i	nventory	Remarks: No	ne.
Inv. (KECI)							
Canada NDSL Inventory		On or in comp	liance v	vith the i	nventory	Remarks: No	ne.
Philippines PICCS		On or in comp	liance v	vith the i	nventory	Remarks: No	ne.
US TSCA Inventory		On or in compliance with the inventory Remarks: None		one.			
New Zealand Inventory of		On or in comp	liance v	vith the i	nventory	Remarks: No	ne.
Chemicals							
Taiwan Chemical Substa	ance	On or in comp	liance v	vith the i	nventory	Remarks: No	ne.
Inventory		the inventory					
REACH							

All substances in this product have been registered by our company or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent monomers and other reactants.

SECTION 16:Other Information

Full text of abbreviated H statements

H226	Flammable liquid and vapor.
H361f	Suspected of damaging fertility.
H411	Toxic to aquatic life with long lasting effects.

Further information

It must be recognized that the physical and chemical properties of any product may not be fully understood and that new, possibly hazardous products may arise from reactions between chemicals. The information given in this data sheet is based on our present knowledge and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

