

# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

### 1.1 Product identifier

**Product name:** Super Antifoam, SL

**Chemical name:**

Polyether-modified polysiloxane

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Identified uses:** Industrial Use

**Uses advised against:** None known.

### 1.3 Details of the supplier of the safety data sheet

Company Name : Evonik Operations GmbH  
Rellinghauser Str. 1-11  
45128 Essen  
Germany

Telephone : +49 201 173 01

Fax : +49 201 173 3000

E-mail : productsafety-cs@evonik.com

### 1.4 Emergency telephone number:

24-Hour Health : +49 2365 49 2232

Emergency : +49 2365 49 4423 (Fax)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

**Classification according to Regulation (EC) No 1272/2008 as amended.**

Not classified

**2.2 Label Elements** Not applicable

**2.3 Other hazards** D4/D5/D6 fulfills the screening criteria for PBT and vPvB substances. However, D4/D5/D6 does not behave like known PBT/vPvB substances. Field trials permit the scientific conclusion that D4/D5/D6 does not accumulate in the aquatic or terrestrial food chain.

## SECTION 3: Composition/information on ingredients

**Chemical name:**

Polyether-modified polysiloxane

### 3.2 Mixtures

**General information:** Contained in the candidate list of Substances of Very High Concern (SVHC) according to REACH

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Decamethylcyclopentasiloxane	>=0.1 - <1%	541-02-6	208-764-9	01-2119511367-43	No data available.	##
Dodecamethylcyclohexasiloxane	>=0.1 - <1%	540-97-6	208-762-8	01-2119517435-42	No data available.	##

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

# This substance has workplace exposure limit(s).

## This substance is listed as SVHC

#### Classification

Chemical name	Classification	Notes
Decamethylcyclopentasiloxane	None known.	
Dodecamethylcyclohexasiloxane	None known.	

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

#### SECTION 4: First aid measures

**General:** Remove soiled or soaked clothing immediately

##### 4.1 Description of first aid measures

**Inhalation:** Ensure supply of fresh air. In the event of symptoms seek medical advice.

**Skin Contact:** In case of contact with skin wash off with soap and water. In the event of symptoms seek medical advice.

**Eye contact:** In case of contact with eyes rinse thoroughly with water. In the event of symptoms seek medical advice.

**Ingestion:** Thoroughly clean the mouth with water. In the event of symptoms seek medical advice.

**4.2 Most important symptoms and effects, both acute and delayed:** No special hints.

##### 4.3 Indication of any immediate medical attention and special treatment needed

**Hazards:** No data available.

**Treatment:** Treat symptomatically.

#### SECTION 5: Firefighting measures

- 5.1 Extinguishing media**
- Suitable extinguishing media:** foam, carbon dioxide, dry powder, water spray.
- Unsuitable extinguishing media:** Full water jet
- 5.2 Special hazards arising from the substance or mixture:** In the event of fire the following can be released: - Carbon monoxide, carbon dioxide, silicon dioxide
- 5.3 Advice for firefighters**
- Special fire fighting procedures:** No specific precautions.
- Special protective equipment for fire-fighters:** Do not inhale explosion and/or combustion gases Use self-contained breathing apparatus and wear full protective suit.

## SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment.
- 6.1.1 For non-emergency personnel:** No data available.
- 6.1.2 For emergency responders:** No data available.
- 6.2 Environmental Precautions:** Do not allow to enter drains or waterways Do not discharge into the subsoil/soil.
- 6.3 Methods and material for containment and cleaning up:** Take up with absorbent material (eg sand, kieselguhr, universal binder) Dispose of absorbed material in accordance with the regulations.
- 6.4 Reference to other sections:** For further information on exposure monitoring and disposal see sections 8 and 13.

## SECTION 7: Handling and storage:

- 7.1 Precautions for safe handling:** Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. No special measures necessary if stored and handled as prescribed.
- 7.2 Conditions for safe storage, including any incompatibilities:** Keep container tightly closed and dry. Protect from freezing. Protect from heat and direct sunlight Stir before use!
- 7.3 Specific end use(s):** No further recommendations.

## SECTION 8: Exposure controls/personal protection

- 8.1 Control Parameters**
- Occupational Exposure Limits** None of the components have assigned exposure limits.

### DNEL-Values

Remarks: No DNEL/DMEL values on file.

**PNEC-Values**

Remarks: No PNEC values on file.

**8.2 Exposure controls**
**Appropriate Engineering Controls:** No data available.

**Individual protection measures, such as personal protective equipment**
**Eye/face protection:** This product is not classified as a hazardous substance. Any necessity for eye protection must be determined within the scope of a risk assessment.

**Hand Protection:** Material: gloves made of nitril (NBR)  
 Break-through time: 240 min  
 Glove thickness: 0.11 mm

**Skin and Body Protection:** protective clothing

**Respiratory Protection:** in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2

**Hygiene measures:** Do not eat, drink or smoke when working. Wash hands before breaks and immediately after handling the product. Remove soiled or soaked clothing immediately.

**Environmental Controls:** The environmental regulations on the control and monitoring of environmental exposures are to be observed.

<b>SECTION 9: Physical and chemical properties</b>
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**9.1 Information on basic physical and chemical properties**
**Appearance**

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	yellowish
<b>Odor:</b>	slight, specific
<b>Odor Threshold:</b>	not measured
<b>pH:</b>	7 - 8 (100 g/l, ) in Water
<b>Freezing point:</b>	not measured
<b>Boiling Point:</b>	not measured
<b>Flash Point:</b>	> 100 °C (DIN EN ISO 2719)
<b>Evaporation Rate:</b>	not measured
<b>Flammability (solid, gas):</b>	no data available
<b>Flammability Limit - Upper (%):</b>	not measured
<b>Flammability Limit - Lower (%):</b>	not measured
<b>Vapor pressure:</b>	not measured
<b>Vapor density (air=1):</b>	not measured
<b>Density:</b>	1 g/cm <sup>3</sup> (25 °C) (DIN 51757)
<b>Relative density:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	(25 °C) Dispersible
<b>Solubility (other):</b>	not measured
<b>Partition coefficient (n-octanol/water):</b>	not measured
<b>Self Ignition Temperature:</b>	not measured
<b>Decomposition Temperature:</b>	not measured

**Kinematic viscosity:** No data available.  
**Dynamic viscosity:** 500 - 700 mPa.s (25 °C)

## 9.2 Other information

**Explosive properties:** not measured  
**Oxidizing properties:** not oxidizing  
**Minimum ignition temperature:** not measured  
**Metal Corrosion:** Not corrosive to metals

## SECTION 10: Stability and reactivity

**10.1 Reactivity:** see section "Possibility of hazardous reactions"  
**10.2 Chemical Stability:** The product is stable under normal conditions.  
**10.3 Possibility of hazardous reactions:** No hazardous reactions with proper storage and handling.  
**10.4 Conditions to avoid:** Unknown  
**10.5 Incompatible Materials:** Unknown  
**10.6 Hazardous Decomposition Products:** None with proper storage and handling.

## SECTION 11: Toxicological information

### Information on likely routes of exposure

**Inhalation:** If handled correctly, not a relevant route of exposure. Information on effects are given below.  
**Skin Contact:** Relevant route of exposure. Information on effects are given below.  
**Eye contact:** Relevant route of exposure. Information on effects are given below.  
**Ingestion:** If handled correctly, not a relevant route of exposure. Information on effects are given below.

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Oral

**Product:** no data available  
**Components:**  
 Decamethylcyclopentasiloxane LD 50 (Rat): > 5,000 mg/kg  
 Dodecamethylcyclohexasiloxane No data available.

##### Dermal

**Product:** no data available  
**Components:**  
 Decamethylcyclopentasiloxane LD 50 (Rat): > 2,000 mg/kg  
 Dodecamethylcyclohexasiloxane No data available.

##### Inhalation

**Product:** no data available

**Components:**

Decamethylcyclopentasiloxane      Aerosols  
 LC 50 (Rat, 4 h) 8.67 mg/l

Dodecamethylcyclohexasiloxane      No data available.

**Repeated dose toxicity**

**Product:**      No data available.

**Components:**

Decamethylcyclopentasiloxane      NOAEL (Rat, Oral, 7 days a week):  $\geq 1,000$  mg/kg  
 NOAEL (Rat, Inhalativ(Vapour) , 5 days/weeks, 6 hours/day):  $\geq 160$  mg/l

NOAEL (Rat, Dermal, 5 days/weeks, 6 hours/day):  $\geq 1,600$  mg/kg

Dodecamethylcyclohexasiloxane      No data available.

**Skin Corrosion/Irritation:**

**Product:**      no data available

**Components:**

Decamethylcyclopentasiloxane      (Rabbit): non-irritant

Dodecamethylcyclohexasiloxane      No data available.

**Serious Eye Damage/Eye Irritation:**

**Product:**      no data available

**Components:**

Decamethylcyclopentasiloxane      Not irritating  
 (Rabbit): Not irritating

Dodecamethylcyclohexasiloxane      Not irritating

**Respiratory or Skin**
**Sensitization:**

**Product:**      no data available

**Components:**

Decamethylcyclopentasiloxane      Local Lymph Node Assay (Mouse): non-sensitizing

Buehler Test (Rabbit): non-sensitizing

Dodecamethylcyclohexasiloxane      No data available.

**Germ Cell Mutagenicity**
**In vitro**

**Product:**      No data available.

**Components:**

Decamethylcyclopentasiloxane      gene mutation (OECD 471): negative  
 gene mutation (OECD 476): negative  
 Chromosomal aberration (OECD 473): negative  
 DNA damage and/or repair: negative

Dodecamethylcyclohexasiloxane      No data available.

**In vivo**

**Product:** No data available.

**Components:**

Decamethylcyclopentasil oxane Micronucleus test (OECD 474) Inhalation (Rat, male and female): negative  
 DNA damage and/or repair (OECD 486) Inhalation (Rat, male and female):  
 negative

Dodecamethylcyclohexas iloxane No data available.

**Carcinogenicity**

**Product:** No data available.

**Components:**

Decamethylcyclopentasil oxane No data available.

Dodecamethylcyclohexas iloxane No data available.

**Reproductive toxicity**

**Product:** No data available.

**Components:**

Decamethylcyclopentasil oxane No data available.

Dodecamethylcyclohexas iloxane No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** no data available

**Components:**

Decamethylcyclopentasil oxane No data available.

Dodecamethylcyclohexas iloxane No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** no data available

**Components:**

Decamethylcyclopentasil oxane No data available.

Dodecamethylcyclohexas iloxane No data available.

**Aspiration Hazard**

**Product:** Not classified

**Components:**

Decamethylcyclopentasil oxane No data available.

Dodecamethylcyclohexas iloxane No data available.

**Other adverse effects:**

Proper use provided, no adverse health effects have been observed or have been come to our knowledge. Eye contact may produce an oil film over the eye-ball causing a harmless reversible shortlasting dimness of sight.

**SECTION 12: Ecological information**
**12.1 Toxicity**
**Acute toxicity**
**Fish**

**Product:** No data available.

**Components**

Decamethylcyclopentasil oxane	LC 50 (Leuciscus idus (Golden orfe), 96 h): > 3,000 mg/l
Dodecamethylcyclohexasiloxane	LC0 (Leuciscus idus (Golden orfe), 96 h): 200 mg/l
	No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Components**

Decamethylcyclopentasil oxane	No data available.
Dodecamethylcyclohexasiloxane	No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Components**

Decamethylcyclopentasil oxane	No data available.
Dodecamethylcyclohexasiloxane	No data available.

**Toxicity to microorganisms**

**Product:** No data available.

**Components**

Decamethylcyclopentasil oxane	No data available.
Dodecamethylcyclohexasiloxane	No data available.

**Chronic Toxicity**
**Fish**

**Product:** No data available.

**Components**

Decamethylcyclopentasil oxane	No data available.
Dodecamethylcyclohexasiloxane	No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Components**

Decamethylcyclopentasil oxane	No data available.
Dodecamethylcyclohexasiloxane	No data available.



**Toxicity to Aquatic Plants**

**Product:** No data available.

**Components**

Decamethylcyclopentasil  
oxane No data available.

Dodecamethylcyclohexas  
iloxane No data available.

**12.2 Persistence and Degradability**
**Biodegradation**

**Product:** No data available.

**BOD/COD Ratio**

**Product** No data available.

**Components**

Decamethylcyclopentasil  
oxane No data available.

Dodecamethylcyclohexas  
iloxane No data available.

**12.3 Bioaccumulative potential**

**Product:** No data available.

**12.4 Mobility in soil:**

No data available.

**12.5 Results of PBT and vPvB assessment:**

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

Decamethylcyclopentasil  
tasiloxane vPvB substance PBT substance

Dodecamethylcyclohexas  
exasiloxane vPvB substance PBT substance

**12.6 Other adverse effects:**

The product is classified as slightly hazardous to waters (according to the German Regulation on the Classification of Substances Hazardous to Waters (WwSV). Do not allow to enter soil, waterways or waste water canal.

<b>SECTION 13: Disposal considerations</b>
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**13.1 Waste treatment methods**

**General information:** No data available.

**Disposal methods:** In accordance with local authority regulations, take to special waste incineration plant

**Contaminated Packaging:** If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

<b>SECTION 14: Transport information</b>
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**14.1 UN number**

Not regulated as a dangerous good

**14.2 UN proper shipping name**

Not regulated as a dangerous good

**14.3 Transport hazard class(es)**

Not regulated as a dangerous good

**14.4 Packing group**

Not regulated as a dangerous good

**14.5 Environmental hazards**

Not regulated as a dangerous good

**14.6 Special precautions for user**

Not applicable

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable for product as supplied.

**SECTION 15: Regulatory information**
**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:** Not applicable

**National Regulations**
**15.2 Chemical safety assessment:**

No chemical safety assessment was carried out for this product.

**International regulations**
**SECTION 16: Other information**
**Abbreviations and acronyms**

**ADR** - European Agreement concerning the International Carriage of Dangerous Goods by Road; **ADN** - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; **AGW** - Occupational exposure limit; **ASTM** - American Society for Testing and Materials; **AwSV** - Ordinance on facilities for handling substances that are hazardous to water; **BSB** - Biochemical oxygen demand; **c.c.** - closed cup; **CAS** - Chemical Abstract Services; **CESIO** - European Committee of Organic Surfactants and their Intermediates; **CSB** - Chemical oxygen demand; **DMEL** - Derived minimum effect level; **DNEL** - Derived no effect level; **EbC50** - median concentration in terms of reduction of growth; **EC** - Effective concentration; **EINECS** - European Inventory of Existing Commercial Chemical Substances; **EN** - European norm; **ErC50** - median concentration in terms of reduction of growth rate; **GGVSEB** - German ordinance for road, rail and inland waterway transportation of dangerous goods; **GGVSee** - German ordinance for sea transportation of dangerous goods; **GLP** - Good Laboratory Practice; **GMO** - Genetic Modified Organism; **IATA** - International Air Transport Association; **ICAO** - International Civil Aviation Organization; **IMDG** - International Maritime Dangerous Goods; **ISO** - International Organization For Standardization; **LD/LC** - lethal dosis/concentration; **LOAEL** - Lowest observed adverse effect level; **LOEL** - Lowest observed effect level; **M-Factor** - multiplying factor; **NOAEL** - No observed adverse effect level; **NOEC** - no observed effect concentration; **NOEL** - no observed effect level; **o.c.** - open cup; **OECD** - Organisation for Economic Cooperation and Development; **OEL** - Occupational Exposure Limit; **PBT** - Persistent, bioaccumulative, toxic; **PNEC** - Predicted no effect concentration; **REACH** - REACH registration; **RID** - Convention concerning International Carriage by Rail; **SVHC** - Substances of Very High Concern; **TA** - Technical Instructions; **TRGS** - Technical Rules for Hazardous Substances; **vPvB** - very persistent, very bioaccumulative; **WGK** - Water Hazard Class

	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**Key literature references and sources for data:** No data available.

**Wording of the H-statements in section 2 and 3:** none

**Training information:** Comply with national laws regulating employee instruction.

**SDS No.:**

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