

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

### 1.1 Product identifier

**Universal sealant**  
**Article number: 33 10 2018**

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

#### 1.2.1 Relevant uses

Sealing material

#### 1.2.2 Uses advised against

None known.

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

**Company** SWAG Autoteile GmbH  
Am Kiesberg 4-6  
42117 Wuppertal / GERMANY  
Phone +49 (0)202 26454-0  
Fax +49 (0)202 26454-5000  
Homepage [www.swag.de](http://www.swag.de)  
E-mail [info@swag.de](mailto:info@swag.de)

**Address enquiries to**

**Technical information** [info@swag.de](mailto:info@swag.de)

**Safety Data Sheet** [info@swag.de](mailto:info@swag.de)

### 1.4 Emergency telephone number

**Advisory body** +49 (0)89-19240 (24h) (English)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

**Hazard pictograms** none

**Signal word** none

**Hazard statements** H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements** P102 Keep out of reach of children.

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local/national regulation.

### 2.3 Other hazards

**Human health dangers** Contains no ingredients with endocrine-disrupting properties.

**Environmental hazards** The mixture contains the following substances which fulfill the PBT and/or vPvB criteria according to REACH criteria, Annex XIII: CAS 541-02-6/ CAS 540-97-6/ CAS 556-67-2

**Other hazards** Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

not applicable

### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
0,1 - < 1	Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance)
	CAS: 540-97-6, EINECS/ELINCS: 208-762-8, Reg-No.: 01-2119517435-42-XXXX
0,1 - < 1	Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance)
	CAS: 541-02-6, EINECS/ELINCS: 208-764-9, Reg-No.: 01-2119511367-43-XXXX
< 0,25	Octamethylcyclotetrasiloxane
	CAS: 556-67-2, EINECS/ELINCS: 209-136-7, EU-INDEX: 014-018-00-1, Reg-No.: 01-2119529238-36-XXXX
	GHS/CLP: Flam. Liq. 3: H226 - Repr. 2: H361f - Aquatic Chronic 1: H410, M-Factor (chronic): 10

Comment on component parts

For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Take off contaminated clothing and wash before reuse.

#### Inhalation

Ensure supply of fresh air.  
In the event of symptoms seek medical treatment.

#### Skin contact

Take up product with suitable paper tissues before.  
When in contact with the skin, clean with soap and water.  
Consult a doctor if skin irritation persists.

#### Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

#### Ingestion

Seek medical advice immediately.  
Do not induce vomiting.  
Rinse mouth.

### 4.2 Most important symptoms and effects, both acute and delayed

No information available.

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

Treat symptomatically.  
Forward this sheet to your doctor.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Foam, dry powder, water spray jet, carbon dioxide.

#### Extinguishing media that must not be used

Full water jet.

### 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

### 6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).  
Do not discharge into the drains/surface waters/groundwater.

### **6.3 Methods and material for containment and cleaning up**

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).  
Dispose of absorbed material in accordance within the regulations.

### **6.4 Reference to other sections**

See SECTION 8+13

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Use only in well-ventilated areas.

Wash hands before breaks and after work.

Use barrier skin cream.

Do not eat, drink or smoke when using this product.

Take off contaminated clothing and wash before reuse.

### **7.2 Conditions for safe storage, including any incompatibilities**

Keep only in original container.

Do not use metal containers.

Protect from heat/overheating.

Keep in a cool place. Store in a dry place.

Recommended storage temperature: +5°C - +25°C

### **7.3 Specific end use(s)**

This product is not recommended for use in joints which will be in contact with either pure oxygen or steam.

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

#### Ingredients with occupational exposure limits to be monitored (UK)

Substance
Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance)
CAS: 541-02-6, EINECS/ELINCS: 208-764-9, Reg-No.: 01-2119511367-43-XXXX
Long-term exposure: 10 ppm, TWA - DCC OEL

#### Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

#### DNEL

Substance
Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6
Industrial, inhalative, Acute - systemic effects, 97,3 mg/m <sup>3</sup>
Industrial, inhalative, Acute - local effects, 24,2 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - local effects, 24,2 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - systemic effects, 97,3 mg/m <sup>3</sup>
general population, inhalative, Acute - systemic effects, 17,3 mg/m <sup>3</sup>
general population, inhalative, Acute - local effects, 4,3 mg/m <sup>3</sup>
general population, inhalative, Long-term - systemic effects, 17,3 mg/m <sup>3</sup>
general population, inhalative, Long-term - local effects, 4,3 mg/m <sup>3</sup>
general population, oral, Acute - systemic effects, 5 mg/kg bw/d
general population, oral, Long-term - systemic effects, 5 mg/kg bw/d
Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6
Industrial, inhalative, Long-term - local effects, 1,22 mg/m <sup>3</sup>
Industrial, inhalative, Acute - local effects, 6,1 mg/m <sup>3</sup>
general population, inhalative, Long-term - local effects, 0,3 mg/m <sup>3</sup>
general population, inhalative, Acute - local effects, 1,5 mg/m <sup>3</sup>
Octamethylcyclotetrasiloxane, CAS: 556-67-2
Industrial, inhalative, Long-term - local effects, 73 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - systemic effects, 73 mg/m <sup>3</sup>
general population, inhalative, Long-term - systemic effects, 13 mg/m <sup>3</sup>
general population, oral, Long-term - systemic effects, 3,7 mg/kg bw/day
general population, inhalative, Long-term - local effects, 13 mg/m <sup>3</sup>

#### PNEC

Substance
Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6
freshwater, 0,0012 mg/l
seawater, 0,00012 mg/l
sediment (freshwater), 2,39 mg/kg dw
sediment (seawater), 0,239 mg/kg dw
sewage treatment plants (STP), > 10 mg/l
soil, 3,34 mg/kg dw
Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6
sediment (freshwater), 13 mg/kg sediment dw
sediment (seawater), 1,3 mg/kg sediment dw
oral (food), 66,7 mg/kg
Octamethylcyclotetrasiloxane, CAS: 556-67-2
freshwater, 1,5 µg/L
seawater, 0,15 µg/L
sewage treatment plants (STP), 10 mg/L
sediment (freshwater), 3 mg/kg sediment dw

sediment (seawater), 0,3 mg/kg sediment dw
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soil, 0,54 mg/kg soil dw
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oral (food), 41 mg/kg
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## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation.
<b>Eye protection</b>	safety glasses (EN 166:2001)
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. > 0,4 mm: Viton, >480 min (EN 374-1/-2/-3).
<b>Skin protection</b>	light protective clothing
<b>Other</b>	Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	No dangerous reactions known if used as directed.
<b>Thermal hazards</b>	not applicable
<b>Delimitation and monitoring of the environmental exposition</b>	Comply with applicable environmental regulations limiting discharge to air, water and soil.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	liquid
<b>Form</b>	pasty
<b>Color</b>	black
<b>Odor</b>	acetic
<b>Odour threshold</b>	No information available.
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not applicable
<b>Boiling point or initial boiling point and boiling range [°C]</b>	No information available.
<b>Flash point [°C]</b>	> 93
<b>Flammability</b>	no
<b>Lower explosion limit</b>	not applicable
<b>Upper explosion limit</b>	not applicable
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	No information available.
<b>Density [g/cm³]</b>	1,01 - 1,06 (20 °C / 68,0 °F)
<b>Relative density</b>	not determined
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water</b>	virtually insoluble
<b>Solubility other solvents</b>	No information available.
<b>Partition coefficient n-octanol/water (log value)</b>	No information available.
<b>Kinematic viscosity</b>	> 20,5 mm²/S (40°C)
<b>Relative vapour density</b>	No information available.
<b>Melting point [°C]</b>	No information available.
<b>Auto-ignition temperature [°C]</b>	No information available.
<b>Decomposition temperature [°C]</b>	No information available.
<b>Particle characteristics</b>	not applicable

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

## **10.2 Chemical stability**

Stable under normal ambient conditions (ambient temperature).

## **10.3 Possibility of hazardous reactions**

Reactions with acids, alkalies and oxidizing agents.

Reactions with reducing agents.

## **10.4 Conditions to avoid**

Strong heating.

Sensitive to moisture.

## **10.5 Incompatible materials**

See SECTION 10.3.

## **10.6 Hazardous decomposition products**

Acetic acid.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6
LD50, oral, Rat, > 5000 mg/kg bw
Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6
LD50, oral, Rat, > 2000 mg/kg (OECD 423)
Octamethylcyclotetrasiloxane, CAS: 556-67-2
LD50, oral, Rat, 4800 mg/kg

#### Acute dermal toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6
LD50, dermal, Rabbit, > 2000 mg/kg bw
Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6
LD50, dermal, Rat, > 2000 mg/kg (OECD 402)
Octamethylcyclotetrasiloxane, CAS: 556-67-2
LD50, dermal, Rat, > 2400 mg/kg

#### Acute inhalational toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6
LD50, inhalativ (mist), Rat, 8,67 mg/l/4h
Octamethylcyclotetrasiloxane, CAS: 556-67-2
LC50, inhalative, Rat, 36 mg/L 4h

#### Serious eye damage/irritation

Slight irritant effect.  
 Based on the available information, the classification criteria are not fulfilled.

Substance
Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6
Eye, non-irritating
Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6
Eye, non-irritating
Octamethylcyclotetrasiloxane, CAS: 556-67-2
Eye, non-irritating

#### Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance
Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6
dermal, non-irritating
Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6
dermal, non-irritating
Octamethylcyclotetrasiloxane, CAS: 556-67-2

dermal, non-irritating

**Respiratory or skin sensitisation**

Based on the available information, the classification criteria are not fulfilled.

Substance
Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6
dermal, non-sensitizing
Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6
dermal, non-sensitizing
Octamethylcyclotetrasiloxane, CAS: 556-67-2
dermal, non-sensitizing

**Specific target organ toxicity — single exposure**

Based on the available information, the classification criteria are not fulfilled.

Substance
Octamethylcyclotetrasiloxane, CAS: 556-67-2
inhalative, irritant

**Specific target organ toxicity — repeated exposure**

Based on the available information, the classification criteria are not fulfilled.

Substance
Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6
NOAEL, oral, Rat, 1000 mg/kg bw/day
NOAEL, dermal, Rat, 1600 mg/kg bw/day
NOAEC, inhalative, Rat, 2420 mg/m <sup>3</sup>
Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6
NOAEL, oral, Rat, 1000 mg/kg bw/day
NOAEC, inhalative, Rat, 546 mg/kg bw/day
LOAEC, inhalative, Rat, 182 mg/kg bw/day
Octamethylcyclotetrasiloxane, CAS: 556-67-2
NOAEL, dermal, Rabbit, 960 mg/kg bw/day (subacute), no adverse effect observed
NOAEC, inhalative, Rat, 1820 mg/m <sup>3</sup> (chronic), no adverse effect observed

**Mutagenicity**

Based on the available information, the classification criteria are not fulfilled.

Substance
Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6
in vitro, negativ
in vivo, negativ
Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6
in vitro, negativ
in vivo, negativ
Octamethylcyclotetrasiloxane, CAS: 556-67-2
in vivo, negativ

**Reproduction toxicity**

Based on the available information, the classification criteria are not fulfilled.

**- Fertility**

Substance
Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6
NOAEC, inhalative, Rat, 2420 mg/m <sup>3</sup>
Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6
NOAEL, oral, Rat, 1000 mg/kg bw/d
Octamethylcyclotetrasiloxane, CAS: 556-67-2
NOAEC, inhalative, Rat, 3640 mg/m <sup>3</sup> (subchronic), adverse effect observed

**- Development**

Substance
Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance), CAS: 541-02-6
NOAEC, inhalative, Rat, 2427 mg/m <sup>3</sup>
Octamethylcyclotetrasiloxane, CAS: 556-67-2
NOAEC, inhalative, Rat, 3640 mg/m <sup>3</sup> (subchronic), adverse effect observed

**Carcinogenicity** Based on the available information, the classification criteria are not fulfilled.

Substance
Octamethylcyclotetrasiloxane, CAS: 556-67-2
NOAEC, inhalative, Rat, 8492 mg/m <sup>3</sup> (chronic)

**Aspiration hazard** Based on the available information, the classification criteria are not fulfilled.

**General remarks**

Toxicological data of complete product are not available.

**11.2 Information on other hazards**

**11.2.1 Endocrine disrupting properties** Does not contain a relevant substance that meets the classification criteria.

**11.2.2 Other information** none

**SECTION 12: Ecological information**

Product
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**12.1 Toxicity**

Based on the available information, the classification criteria are not fulfilled.

Substance
Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance), CAS: 540-97-6
EC50, (72h), Pseudokirchneriella subcapitata, > 0,002 mg/l
EC50, (3h), Bacteria, 100 mg/l
NOEC, (28d), 130 mg/kg sediment dw
NOEC, (28d), 1 g/kg soil dw
NOEC, (21d), Daphnia magna, >= 0,0046 mg/l
NOEC, (72h), Pseudokirchneriella subcapitata, >= 0,002 mg/l
Octamethylcyclotetrasiloxane, CAS: 556-67-2
EC50, (48h), Invertebrates, 0,015 mg/L
EC50, (4d), Algae, 0,022 mg/L
NOEC, (48h), Invertebrates, 0,015 mg/L

**12.2 Persistence and degradability****Behaviour in environment compartments**

**Behaviour in sewage plant** not determined

**Biological degradability** not determined

**12.3 Bioaccumulative potential**

Product has having no bioaccumulation potential.

**12.4 Mobility in soil**

No information available.

## 12.5 Results of PBT and vPvB assessment

The mixture contains the following substances which fulfill the PBT and/or vPvB criteria according to REACH criteria, Annex XIII:

CAS 541-02-6

CAS 540-97-6

CAS 556-67-2

## 12.6 Endocrine disrupting properties

Does not contain a relevant substance that meets the classification criteria.

## 12.7 Other adverse effects

Do not discharge product unmonitored into the environment.

The product is insoluble in water.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

#### Product

Coordinate disposal with the disposal contractor/authorities if necessary.

#### Waste no. (recommended)

080410

#### Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Contaminated packing should be disposed of as product waste.

#### Waste no. (recommended)

150102

150104

## SECTION 14: Transport information

### 14.1 UN number or ID number

#### Transport by land according to ADR/RID

not applicable

#### Inland navigation (ADN)

not applicable

#### Marine transport in accordance with IMDG

not applicable

Air transport in accordance with IATA not applicable

### 14.2 UN proper shipping name

#### Transport by land according to ADR/RID

NO DANGEROUS GOODS

#### Inland navigation (ADN)

NO DANGEROUS GOODS

#### Marine transport in accordance with IMDG

NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

#### 14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

#### 14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

#### 14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 14.7 Maritime transport in bulk according to IMO instruments

not applicable

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EEC-REGULATIONS

2008/98/EG (2000/532/EC ); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707

#### - Comment on component parts

SVHC (Candidate List of Substances of Very High Concern for authorisation)  $\geq$  0.1%  
CAS 541-02-6 - Decamethylcyclopentasiloxane (non-classified PBT/vPvB substance)  
CAS 540-97-6 - Dodecamethylcyclohexasiloxane (non-classified PBT/vPvB substance)  
CAS 556-67-2 - Octamethylcyclotetrasiloxane

#### - Annex XIV (REACH)

According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances  $\geq$  0.1% that are subject to authorisation.

#### - Annex XVII (REACH)

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains  $\geq$  0.1% of substances with the following restrictions. 40, 70, 75

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the following restrictions. 3, 70

#### TRANSPORT-REGULATIONS

ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025)

#### NATIONAL REGULATIONS (UK):

EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.

#### - Observe employment restrictions for people

no

#### - VOC (2010/75/CE)

36 g/l

### 15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### 16.1 Hazard statements (SECTION 3)

H410 Very toxic to aquatic life with long lasting effects.

H361f Suspected of damaging fertility.

H226 Flammable liquid and vapour.

**16.2 Abbreviations and acronyms:**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
 ATE = acute toxicity estimate  
 CAS = Chemical Abstracts Service  
 CLP = Classification, Labelling and Packaging  
 DMEL = Derived Minimum Effect Level  
 DNEL = Derived No Effect Level  
 EC50 = Median effective concentration  
 ECB = European Chemicals Bureau  
 EEC = European Economic Community  
 EINECS = European Inventory of Existing Commercial Chemical Substances  
 EL50 = Median effective loading  
 ELINCS = European List of Notified Chemical Substances  
 EmS = Emergency Schedules  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
 IC50 = Inhibition concentration, 50%  
 IMDG = International Maritime Code for Dangerous Goods  
 IUCLID = International Uniform Chemical Information Database  
 IVIS = In vitro irritation score  
 LC50 = Lethal concentration, 50%  
 LD50 = Median lethal dose  
 LC0 = lethal concentration, 0%  
 LOAEL = lowest-observed-adverse-effect level  
 LL50 = Median lethal loading  
 LQ = Limited Quantities  
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
 NOAEL = No Observed Adverse Effect Level  
 NOEC = No Observed Effect Concentration  
 PBT = Persistent, Bioaccumulative and Toxic substance  
 PNEC = Predicted No-Effect Concentration  
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
 STP = Sewage Treatment Plant  
 TLV®/TWA = Threshold limit value – time-weighted average  
 TLV®STEL = Threshold limit value – short-time exposure limit  
 VOC = Volatile Organic Compounds  
 vPvB = very Persistent and very Bioaccumulative

**16.3 Other information****Customs Tariff**

not determined

**Classification procedure**

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

**Modified position**

11.2, 12.6, 15.1, 16.3