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Version 2

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

### 1.1. Product identifier

**Product name** Water-repellent silicone emulsion 50

**Pure substance/mixture** Mixture

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

**Recommended Use** Building and construction work

**Uses advised against** No information available

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

**Nedform BV**  
Hofdarsweg 20  
6161DD Geleen  
The Netherlands  
☎ 0031-464106260

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**Contact Point** R&D Department

**E-mail address** info@nedform.com

### 1.4. Emergency telephone number

**Emergency telephone** 0031-475-560300 / 0048-12-4157922

<b>Emergency telephone - §45 - (EC)1272/2008</b>
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<b>Europe</b>	112
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

<b>Skin corrosion/irritation</b>	Category 2 - (H315)
<b>Serious eye damage/eye irritation</b>	Category 2 - (H319)
<b>Chronic aquatic toxicity</b>	Category 2 - (H411)

### 2.2. Label elements

**Signal word**

Warning

**Hazard statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H411 - Toxic to aquatic life with long lasting effects

**Precautionary Statements - EU (§28, 1272/2008)**

P264 - Wash face, hands and any exposed skin thoroughly after handling

P273 - Avoid release to the environment

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P501 - Dispose of contents/ container to an approved waste disposal plant

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable

**3.2 Mixtures**

Chemical name	EC No	CAS No	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight-%
Triethoxyoctylsilane	220-941-2	2943-75-1	01-2119972313-39	Skin Irrit. 2 (H315) Aquatic Chronic 2 (H411)	50-100
Poly Amino Functional Siloxane, Hydroxy-Terminated	-	75718-16-0	No data available	Skin Irrit. 2 (H315)	5-10
Isotridecanol, branched, ethoxylated	-	69011-36-5	No data available	Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	1-5
Isotridecanol, branched, ethoxylated	-	69011-36-5	No data available	Eye Dam. 1 (H318) Acute Tox. 4 (H302)	1-5

Chemical name	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Remarks
Isotridecanol, branched, ethoxylated	Eye Dam. 1 :: C>=10% Eye Irrit. 2 :: 1%<=C<10%	-	-	-

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

<b>General advice</b>	IF exposed or concerned: Get medical advice/attention.
<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a doctor.***
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Drink plenty of water. Call a doctor.***
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

**4.2. Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	May cause redness and tearing of the eyes. Burning sensation.
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**4.3. Indication of any immediate medical attention and special treatment needed**

<b>Note to doctors</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

**5.1. Extinguishing media**

<b>Suitable Extinguishing Media</b>	Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Alcohol resistant foam. Cool containers with flooding quantities of water until well after fire is out.
<b>Large Fire</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.

**5.2. Special hazards arising from the substance or mixture**

<b>Specific hazards arising from the chemical</b>	Thermal decomposition can lead to release of irritating and toxic gases and vapours.
<b>Hazardous combustion products</b>	Carbon monoxide. Carbon dioxide (CO <sub>2</sub> ). Nitrogen oxides (NO <sub>x</sub> ).

**5.3. Advice for firefighters**

<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. In the event of fire and/or explosion do not breathe fumes.
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## SECTION 6: Accidental release measures

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

**Personal precautions** Use personal protective equipment as required. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapours/spray. Special danger of slipping by leaking/spilling product. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

**Environmental precautions** Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional Ecological Information.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Dam up. Use personal protective equipment as required. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See Section 12 for additional Ecological Information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation. Use personal protection equipment. Use with local exhaust ventilation. Do not breathe dust/fume/gas/mist/vapours/spray.\*\*\*

**General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands and face before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing. Regular cleaning of equipment, work area and clothing is recommended.

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

**Storage Conditions** Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers. Keep/store only in original container.

### 7.3. Specific end use(s)

**Risk Management Methods (RMM)** The information required is contained in this Material Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters****Exposure Limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL) worker.**

Derived No Effect Level (DNEL)

Triethoxyoctylsilane (2943-75-1)

Type Systemic health effects, Long term

Exposure route Dermal

Derived No Effect Level (DNEL) 1 mg/kg bw/d

Type Systemic health effects, Long term

Exposure route Inhalation

Derived No Effect Level (DNEL) 7.1 mg/m<sup>3</sup>

**Derived No Effect Level (DNEL) - Consumer**

Derived No Effect Level (DNEL)

Triethoxyoctylsilane (2943-75-1)

Type Systemic health effects, Long term

Exposure route Oral

Derived No Effect Level (DNEL) 0.5 mg/kg bw/d

Type Systemic health effects, Long term

Exposure route Dermal

Derived No Effect Level (DNEL) 0.5 mg/kg bw/d

Type Systemic health effects, Long term

Exposure route Inhalation

Derived No Effect Level (DNEL) 1.7 mg/m<sup>3</sup>

**Predicted No Effect Concentration (PNEC)**

Predicted No Effect Concentration (PNEC)

Triethoxyoctylsilane (2943-75-1)

Environmental compartment Freshwater

Predicted No Effect Concentration (PNEC) 0.002 mg/l

Environmental compartment Freshwater sediment

Predicted No Effect Concentration (PNEC) 4.2 mg/kg dry weight

Environmental compartment Marine water

Predicted No Effect Concentration (PNEC) 0 mg/l

Environmental compartment Marine sediment

Predicted No Effect Concentration (PNEC) 0.42 mg/kg dry weight

Environmental compartment Microorganisms in sewage treatment

Predicted No Effect Concentration (PNEC) 100 mg/l

**8.2. Exposure controls****Engineering controls**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location.

### Personal Protective Equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves. Gloves must conform to standard EN 374.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
Long term (repeated)***	Wear protective nitrile rubber gloves***	>=0.4 mm***	480 minutes***

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands and face before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing. Regular cleaning of equipment, work area and clothing is recommended.

**Environmental exposure controls** Local authorities should be advised if significant spillages cannot be contained.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	Liquid
<b>Appearance</b>	No information available
<b>Colour</b>	white
<b>Odour</b>	characteristic.
<b>Odour threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Melting point/freezing point</b>	No data available	None known
<b>Boiling point / boiling range</b>	approx.*** 100*** °C***	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability limit:</b>	No data available	
<b>Lower flammability limit</b>	No data available	
<b>Flash Point</b>	No data available	Not Applicable
<b>Autoignition Temperature</b>	No data available	None known
<b>Decomposition temperature</b>		None known
<b>pH</b>	7	
<b>pH (as aqueous solution)</b>	No data available	No information available
<b>Kinematic viscosity</b>	No data available	@ 40°C
<b>Dynamic viscosity</b>	approx. 300 mPa s	@ 40°C
<b>Water solubility</b>	Soluble in water	@ 20°C
<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient</b>	No data available	None known
<b>Vapour pressure</b>	No data available	
<b>Relative Density</b>	approx. 0.932 g/cm <sup>3</sup>	
<b>Bulk Density</b>	No data available	
<b>Density</b>	No data available	
<b>Vapour Density</b>	No data available	None known
<b>Particle characteristics</b>		
<b>Particle Size</b>	No information available	

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**Particle Size Distribution** No information available

## 9.2. Other information

9.2.1. Information with regards to physical hazard classes  
Not applicable

9.2.2. Other safety characteristics  
No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** No information available.

### 10.2. Chemical stability

**Stability** Stable under normal conditions.

#### **Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

### 10.4. Conditions to avoid

**Conditions to avoid** None known based on information supplied.

### 10.5. Incompatible materials

**Incompatible materials** Incompatible with oxidising agents. Acids. Bases.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Thermal decomposition can lead to release of irritating and toxic gases and vapours.  
Carbon dioxide (CO<sub>2</sub>). Carbon monoxide.

## SECTION 11: Toxicological information

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

#### Information on likely routes of exposure

**Product Information** Product does not present an acute toxicity hazard based on known or supplied information\*\*\*

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

**Skin contact** Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).

**Ingestion** Specific test data for the substance or mixture is not available.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Redness. May cause redness and tearing of the eyes.

**Numerical measures of toxicity**

**Acute toxicity**

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Triethoxyoctylsilane	> 5110 mg/kg (Rat OECD Guideline 401)	approx. 6730 mg/kg (Rat OECD Guideline 402)	> 22 ppm (Rat OECD Guideline 403)
Isotridecanol, branched, ethoxylated	> 5000 mg/kg (Rat)	> 2000 mg/kg (rabbit)	> 1.6 mg/L ( Rat ) 4 h
Isotridecanol, branched, ethoxylated	> 300 - 2000 mg/kg (Rat)	> 2000 mg/kg (rabbit)	> 1.6 mg/L ( Rat ) 4 h

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Classification based on data available for ingredients. Irritating to skin.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**11.2. Information on other hazards**

**11.2.1. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

**11.2.2. Other information**

**Other adverse effects** No information available.

**SECTION 12: Ecological information**

**12.1. Toxicity**



**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Triethoxyoctylsilane (2943-75-1)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Pseudokirchneriella subcapitata	ErC50	> 0.13 mg/L	72 hours	
OECD Test No. 203: Fish, Acute Toxicity Test	Oncorhynchus mykiss (rainbow trout)	LC50	> 0.055 mg/L	96 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Daphnia magna	EC50	> 0.049 mg/L	48 hours	

Isotridecanol, branched, ethoxylated (69011-36-5)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Algae	EC50	> 1 - 10 mg/L	72 hours	
OECD Test No. 203: Fish, Acute Toxicity Test	Cyprinus carpio	LC50	> 1 - 10 mg/L	96 hours	
	Leuciscus idus	LC50	> 1 - 10 mg/L	96 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Daphnia magna	EC50	> 1 -10 mg/L	48 hours	
	Daphnia magna	NOEC	approx. 1.36 mg/L	504 hours	

Isotridecanol, branched, ethoxylated (69011-36-5)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Algae	EC50	> 10 - 100 mg/L	72 hours	
OECD Test No. 203: Fish, Acute Toxicity Test	Cyprinus carpio	LC50	> 10 - 100 mg/L	96 hours	
	Leuciscus idus	LC50	> 10 - 100 mg/L	96 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Daphnia magna	EC50	> 10 - 100 mg/L	48 hours	

## 12.2. Persistence and degradability

**Persistence and degradability** No information available.

### Product Information

**Biodegradation** No information available  
**BOD** No information available  
**ThCO<sub>2</sub>** No information available  
**DOC** No information available

Chemical name	Biodegradation
Triethoxyoctylsilane 2943-75-1	Biodegradation: 31.5% (672h OECD 301D)
Isotridecanol, branched, ethoxylated 69011-36-5	Biodegradation: > 60 % (672h OECD 301B)
Isotridecanol, branched, ethoxylated 69011-36-5	Biodegradation: > 60 % (672h OECD 301B)

## 12.3. Bioaccumulative potential

**Bioaccumulation (factor)** No information available

#### Component Information

Chemical name	Partition coefficient
Triethoxyoctylsilane	6.41

#### 12.4. Mobility in soil

**Mobility in soil** No information available.

#### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
Triethoxyoctylsilane	The substance is not PBT / vPvB***
Isotridecanol, branched, ethoxylated	The substance is not PBT / vPvB
Isotridecanol, branched, ethoxylated	The substance is not PBT / vPvB

#### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

#### 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Contaminated packages must be completely emptied and can be re-used following proper cleaning. Clean IBCs or drums at approved facility. Packaging which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the product itself.

**OTHER INFORMATION** Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14: Transport information

#### IATA

14.1 UN number or ID number UN3082\*\*\*  
 14.2 UN proper shipping name Environmentally hazardous substances, liquid, n.o.s.\*\*\*  
 14.3 Transport hazard class(es) 9\*\*\*  
 14.4 Packing group III\*\*\*  
 Description UN3082, Environmentally hazardous substances, liquid, n.o.s.(Triethoxyoctylsilane), 9, III\*\*\*  
 14.5 Environmental Hazard Yes\*\*\*  
 14.6 Special precautions for user  
 Special Provisions A97, A158, A197\*\*\*

#### IMDG

14.1 UN number or ID number UN3082\*\*\*  
 14.2 UN proper shipping name Environmentally hazardous substances, liquid, n.o.s.\*\*\*  
 14.3 Transport hazard class(es) 9\*\*\*  
 14.4 Packing group III\*\*\*

<b>Description</b>	UN3082, Environmentally hazardous substances, liquid, n.o.s.(Triethoxyoctylsilane), 9, III, Marine pollutant***
<b>14.5 Environmental Hazard</b>	Yes***
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	274, 335, 969***
<b>EmS-No</b>	F-A, S-F***
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	No information available
<b>RID</b>	
<b>14.1 UN number or ID number</b>	UN3082***
<b>14.2 UN proper shipping name</b>	Environmentally hazardous substances, liquid, n.o.s.***
<b>14.3 Transport hazard class(es)</b>	9***
<b>14.4 Packing group</b>	III***
<b>Description</b>	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.(Triethoxyoctylsilane), 9, III***
<b>14.5 Environmental Hazard</b>	Yes***
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	274, 335, 375, 601***
<b>Classification code</b>	M6***
<b>ADR</b>	
<b>14.1 UN number or ID number</b>	UN3082***
<b>14.2 UN proper shipping name</b>	Environmentally hazardous substances, liquid, n.o.s.***
<b>14.3 Transport hazard class(es)</b>	9***
<b>14.4 Packing group</b>	III***
<b>Description</b>	UN3082, Environmentally hazardous substances, liquid, n.o.s.(Triethoxyoctylsilane), 9, III***
<b>14.5 Environmental Hazard</b>	Yes***
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	274, 335, 601, 375***
<b>Classification code</b>	M6***
<b>ADR Hazard Id (Kemmler Number)</b>	90***

## SECTION 15: Regulatory information

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

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### Persistent Organic Pollutants

Not applicable

#### Dangerous substance category per Seveso Directive (2012/18/EU)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

**International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Contact supplier for inventory compliance status
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Contact supplier for inventory compliance status
<b>IECSC</b>	Contact supplier for inventory compliance status
<b>KECL</b>	Contact supplier for inventory compliance status
<b>PICCS</b>	Contact supplier for inventory compliance status
<b>AICS</b>	Contact supplier for inventory compliance status
<b>NZIoC</b>	Contact supplier for inventory compliance status
<b>NECI</b>	Contact supplier for inventory compliance status

**Legend:**

<b>TSCA</b>	- United States Toxic Substances Control Act Section 8(b) Inventory
<b>DSL/NDSL</b>	- Canadian Domestic Substances List/Non-Domestic Substances List
<b>EINECS/ELINCS</b>	- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
<b>ENCS</b>	- Japan Existing and New Chemical Substances
<b>IECSC</b>	- China Inventory of Existing Chemical Substances
<b>KECL</b>	- Korean Existing and Evaluated Chemical Substances
<b>PICCS</b>	- Philippines Inventory of Chemicals and Chemical Substances
<b>AICS</b>	- Australian Inventory of Chemical Substances
<b>NZIoC</b>	- New Zealand Inventory of Chemicals
<b>NECI</b>	- Taiwan National Existing Chemical Inventory

**15.2. Chemical safety assessment**

<b>Chemical Safety Report</b>	Chemical safety assessments for substances in this mixture were not carried out For this substance a chemical safety assessment has not been carried out
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**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed
H315 - Causes skin irritation
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H411 - Toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects

**Legend**

SVHC: Substances of Very High Concern for Authorisation:

**Legend SECTION 8: Exposure controls/personal protection**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method

Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	On basis of test data
Chronic aquatic toxicity	On basis of test data
Aspiration hazard	Calculation method
Ozone	Calculation method

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGl(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 Japan GHS Classification  
 Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
 Organisation for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

**Revision date** 27-Jan-2022

**Revision note** See the red text with asterisks in this safety data sheet for the latest changes.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**