

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## SuINOx Eco

Version 1

Revision Date 03.05.2022

Print Date 01.09.2022

DE / EN

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Trade name : SuINOx Eco

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

Use of the Substance/Mixture : Specific use(s): Surfactant

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

Company : Nouryon Surface Chemistry AB  
Stenunge Alle 3  
SE 444 85 Stenungsund  
Sweden

Telephone : +4630385000  
Telefax : +4630384659  
E-mail address : Regulatory.Affairs@nouryon.com

#### 1.4 Emergency telephone number

Emergency telephone number : 020 99 60 00 Kemiakuten, SE +31 57 06 79 211 24 hours emergency response number-:  
Nouryon Emergency Response Centre: +31 570 679211  
Poison Centre: -

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### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, 4, H302  
Acute toxicity, 4, H332  
Acute toxicity, 4, H312  
Skin irritation, 2, H315  
Serious eye damage, 1, H318  
Long-term (chronic) aquatic hazard, 3, H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Pictogram



Signal word

: Danger

Hazard statements

: H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**  
P261 Avoid breathing mist or vapours.  
P264 Wash skin thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

**Response:**  
P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

### Hazardous components which must be listed on the label:

2-Butoxyethanol 111-76-2  
Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl) 68155-07-7

## 2.3 Other hazards

No further data available.

PBT and vPvB assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Pure substance/mixture : Mixture

#### Hazardous substance

Chemical name	PBT vPvB OEL	CAS-No. EC-No. REACH No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
2-Butoxyethanol		111-76-2 203-905-0 01-2119475108-36	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 80 - < 90
Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)		68155-07-7 268-935-9	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411	>= 15 - < 20
2-Propylheptanol ethoxylate		160875-66-1	Eye Irrit. 2; H319	>= 1 - < 5
Diethanolamine		111-42-2 203-868-0 01-2119488930-28	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Repr. 2; H361fd STOT RE 2; H373	>= 0 - < 1

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

- General advice : Immediate medical attention is required.  
Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : If breathed in, move person into fresh air.  
Consult a physician after significant exposure.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash the skin immediately with soap and water.  
If skin irritation persists, call a physician.
- In case of eye contact : Rinse with plenty of water.  
Get medical attention immediately. Continue to rinse during

transport.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.

If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Never give anything by mouth to an unconscious person.  
Obtain medical attention.

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

Risks : Harmful if swallowed, in contact with skin or if inhaled.  
Causes skin irritation.  
Causes serious eye damage.

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

Treatment : Treat symptomatically.

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### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam  
Dry chemical

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during firefighting / Specific hazards arising from the chemical : Water spray may be ineffective unless used by experienced firefighters.  
Do not allow run-off from fire fighting to enter drains or water courses.

Combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Personal precautions : Use personal protective equipment.  
Wear respiratory protection.  
Ensure adequate ventilation.

Emergency measures on : Evacuate personnel to safe areas.

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accidental release : Only qualified personnel equipped with suitable protective equipment may intervene.  
Prevent unauthorised persons entering the zone.

## 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Discharge into the environment must be avoided.

## 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up /  
Methods for containment : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

## 6.4 Reference to other sections

For disposal considerations see section 13.  
For personal protection see section 8.

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## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.  
Avoid formation of aerosol.  
Do not breathe vapours or spray mist.  
Avoid contact with skin, eyes and clothing.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Avoid formation of aerosol.  
Keep away from sources of ignition - No smoking.  
No sparking tools should be used.  
Take measures to prevent the build up of electrostatic charge.

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

Requirements for storage areas and containers : Prevent unauthorized access.  
No smoking.  
Keep in a well-ventilated place.

German storage class : 10, Combustible liquids

Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : No information available.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis
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		of exposure)		
2-Butoxyethanol	111-76-2	TWA	20 ppm 98 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	50 ppm 246 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		AGW	10 ppm 49 mg/m <sup>3</sup>	DE TRGS 900
	Peak-limit: excursion factor (category): 2;(I)			
	Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
		TWA	20 ppm	ACGIH
Diethanolamine	111-42-2	AGW (Vapour and aerosols)	0,11 ppm 0,5 mg/m <sup>3</sup>	DE TRGS 900
	Peak-limit: excursion factor (category): 1;(I)			
	Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child, Substance sensitizing through the skin			
		TWA (Inhalable fraction and vapor)	1 mg/m <sup>3</sup>	ACGIH

## **Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
2-Butoxyethanol	111-76-2	butoxy acetic acid: 150 mg/g Creatinine (Urine)	In case of long-term exposure: after more than one shift Immediately after exposure or after working hours	TRGS 903 - Biological limit values
Further information	:	After hydrolysis		

## **Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

Substance name	End Use	Exposure routes	Potential health effects	Value
Diethanolamine	Workers	Skin contact	Long-term systemic effects	0,13 mg/kg bw/day
	Workers	Inhalation	Long-term local effects	0,5 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	0,75 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	0,07 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,06 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,125 mg/m <sup>3</sup>

## **Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

Substance name	Environmental Compartment	Value
Diethanolamine	Fresh water	0,021 mg/l

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	Marine water	0,002 mg/l
	Intermittent use/release	0,095 mg/l
	Fresh water sediment	0,092 mg/kg dry weight
	Marine sediment	0,0092 mg/kg dry weight
	Sewage treatment plant	100 mg/l
	Soil	1,63 mg/kg dry weight
	Secondary Poisoning	1,04 mg/kg food

## 8.2 Exposure controls

### Engineering measures

Effective exhaust ventilation system

Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

Material : Neoprene

Material : Nitrile rubber

Skin and body protection : Protective suit

Respiratory protection : In the case of vapour or aerosol formation use a respirator with an approved filter.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

### Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.  
Discharge into the environment must be avoided.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : clear, light yellow

Odour : No information available.

Odour Threshold : No data available

Melting point : No data available

Boiling point : No data available

Upper explosion limit / Upper : Not applicable

flammability limit

Lower explosion limit / Lower  
flammability limit : Not applicable

Flash point : 67 °C  
Method: Pensky-Martens closed cup

Decomposition temperature  
Decomposition  
temperature : No data available

pH : 7,0 - 9,9  
Concentration: 1 %

Viscosity  
Viscosity, dynamic : 9 mPa.s (20 °C)  
Viscosity, kinematic : No data available

Solubility(ies)  
Water solubility : dispersible  
Solubility in other solvents : No data available

Partition coefficient: n-  
octanol/water : No data available

Vapour pressure : No data available

Relative density : No data available

Relative vapour density : No data available

## 9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Flammability (liquids) : No data available

Self-ignition : No data available

Evaporation rate : No data available

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under normal conditions.

### 10.2 Chemical stability



Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : None known.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

Thermal decomposition : No data available

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## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Product information:

Acute toxicity : Harmful if swallowed, in contact with skin or if inhaled.

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/eye irritation : Causes serious eye damage.

Respiratory or skin sensitisation : Respiratory sensitisation: Not classified based on available information.  
Skin sensitisation: Not classified based on available information.

Germ cell mutagenicity : Not classified based on available information.

Carcinogenicity : Not classified based on available information.

Reproductive toxicity : Not classified based on available information.

STOT - single exposure : Not classified based on available information.

STOT - repeated exposure : Not classified based on available information.

Aspiration hazard : Not classified based on available information.

Further information : No further data available.

#### Test result

Acute oral toxicity : Acute toxicity estimate: 625 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : 13,75 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 1 375 mg/kg  
Method: Calculation method

## Toxicology data for the components:

### 2-Butoxyethanol

#### Acute toxicity:

Acute oral toxicity : LD50: > 300 - 2 000 mg/kg  
Species: Rat

Acute toxicity estimate: 300,03 mg/kg  
Method: Calculation method

Acute inhalation toxicity : LC50 (Rat): > 10 - 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method  
Information taken from reference works and the literature.

Acute toxicity estimate : 10,001 mg/l  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : LD50: > 1 000 - 2 000 mg/kg  
Species: Rabbit  
Method: Calculation method  
Information taken from reference works and the literature.

Acute toxicity estimate: 1 000,1 mg/kg  
Method: Calculation method

Skin corrosion/irritation : Result: Irritating to skin.

Serious eye damage/eye irritation : Result: Irritating to eyes.

### Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)

#### Acute toxicity:

Acute oral toxicity : LD50: > 5 000 mg/kg  
Species: Rat  
Method: OECD Test Guideline 401

Skin corrosion/irritation : Species: Rabbit  
Result: Skin irritation

Serious eye damage/eye irritation : Species: Rabbit  
Result: Risk of serious damage to eyes.

### 2-Propylheptanol ethoxylate

#### Acute toxicity:

Acute oral toxicity : LD50: > 2 000 mg/kg  
Species: Rat  
Read-across (Analogy)

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Skin corrosion/irritation	: Result: No skin irritation
Serious eye damage/eye irritation	: Result: Mild eye irritation
Respiratory or skin sensitisation	: Result: Does not cause skin sensitisation.
Repeated dose toxicity	: 250 mg/kg
Teratogenicity	: > 250 mg/kg

## Diethanolamine

### Acute toxicity:

Acute oral toxicity	: LD50: 1 600 mg/kg Species: Rat Method: OECD Test Guideline 401  Acute toxicity estimate: 1 600 mg/kg Method: Calculation method
Acute inhalation toxicity	: Not classified due to data which are conclusive although insufficient for classification.
Acute dermal toxicity	: No data available
Skin corrosion/irritation	: Species: Rabbit Result: Irritating to skin. Method: OECD Test Guideline 404
Serious eye damage/eye irritation	: Species: Rabbit Result: Risk of serious damage to eyes. Method: OECD Test Guideline 405
Respiratory or skin sensitisation	: Maximisation Test Species: Guinea pig Result: Does not cause skin sensitisation. Method: OECD Test Guideline 406
Germ cell mutagenicity	
Genotoxicity in vitro	: Ames test Result: negative
Genotoxicity in vivo	: Chromosome aberration test in vivo Species: Mouse Result: negative
Carcinogenicity	: Result: Not classified due to data which are conclusive although insufficient for classification.
CMR effects Reproductive toxicity	: Some evidence of adverse effects on development, based on animal experiments., Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

- STOT - single exposure : Based on available data, the classification criteria are not met.
- STOT - repeated exposure : Exposure routes: Oral  
Target Organs: Blood, Liver, Kidney, Nervous system  
May cause damage to organs through prolonged or repeated exposure.
- Aspiration hazard : Not classified due to data which are conclusive although insufficient for classification.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

- Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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## SECTION 12: ECOLOGICAL INFORMATION

### Product information:

#### Ecotoxicology Assessment

- Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## 12.1 Toxicity

### Components:

#### Ecotoxicology Assessment

##### Diethanolamine

- Short-term (acute) aquatic hazard : Toxic to aquatic life.

#### Test result

##### 2-Butoxyethanol

- Toxicity to fish : LC50: 1 490 mg/l  
Exposure time: 96 h  
Species: Lepomis macrochirus (Bluegill sunfish)  
Method: OECD Test Guideline 203

- Toxicity to daphnia and other aquatic invertebrates : EC50: > 1 000 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202

##### Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)

- Toxicity to fish : LC50: 4,9 mg/l  
Exposure time: 96 h  
Species: Danio rerio (zebra fish)

- LC50: 2,4 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates : EC50: 3,3 mg/l  
Exposure time: 24 h  
Species: Daphnia magna (Water flea)  
Test Type: static test

Toxicity to algae : NOEC: 2 mg/l  
Exposure time: 72 h  
Species: Scenedesmus subspicatus (algae)

## 2-Propylheptanol ethoxylate

Toxicity to fish : LC50: > 1 - 10 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)  
Read-across (Analogy)

Toxicity to daphnia and other aquatic invertebrates : EC50: > 1 - 10 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Read-across (Analogy)

Toxicity to algae : EC50: > 10 - 100 mg/l  
Exposure time: 72 h  
Species: Scenedesmus subspicatus (algae)  
Read-across (Analogy)

## Diethanolamine

Toxicity to fish : LC50: > 100 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)  
Test Type: static test  
Information taken from reference works and the literature.

Toxicity to daphnia and other aquatic invertebrates : EC50: > 10 - 100 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Information taken from reference works and the literature.

Toxicity to algae : EC50: > 1 - 10 mg/l  
Exposure time: 96 h  
Species: Pseudokirchneriella subcapitata (green algae)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,05 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test

## 12.2 Persistence and degradability

**Product information** : No information available.

### Components:

#### 2-Butoxyethanol

Biodegradability : Result: Readily biodegradable.

**2-Propylheptanol ethoxylate**

Biodegradability : Result: Readily biodegradable.  
Read-across (Analogy)

**Diethanolamine**

Biodegradability : Result: Readily biodegradable.

**12.3 Bioaccumulative potential**

**Product information** : No information available.

**Components:****2-Butoxyethanol**

Bioaccumulation : Bioaccumulation is unlikely.

**2-Propylheptanol ethoxylate**

Bioaccumulation : No data available

**Diethanolamine**

Bioaccumulation : Not expected considering the low log Pow value.

**12.4 Mobility in soil**

**Product information** : No information available.

**Components:****2-Butoxyethanol**

Mobility : No data available

**2-Propylheptanol ethoxylate**

Mobility : No data available

**Diethanolamine**

Mobility : Adsorption to the solid soil particles is not expected.  
Transport to air is not expected.

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

PBT and vPvB assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Components:****2-Butoxyethanol**

PBT and vPvB assessment : This substance is not considered to be a PBT (Persistent, Bioaccumulation, Toxic)  
This substance is not considered to be vPvB (very Persistent nor very Bioaccumulating)

**2-Propylheptanol ethoxylate**

PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).  
This substance is not considered to be very persistent and very bioaccumulating (vPvB).

**Diethanolamine**

PBT and vPvB assessment : This substance is not considered to be a PBT (Persistent,

Bioaccumulation, Toxic)

This substance is not considered to be vPvB (very Persistent nor very Bioaccumulating)

## 12.6 Endocrine disrupting properties

### Product information:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7 Other adverse effects

**Product information** : No information available.

### Components:

#### 2-Butoxyethanol

Biochemical Oxygen Demand (BOD) : No data available

#### 2-Propylheptanol ethoxylate

Biochemical Oxygen Demand (BOD) : No data available

#### Diethanolamine

Biochemical Oxygen Demand (BOD) : No data available

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## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Dispose of contents/container in accordance with local regulation.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.

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## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN number

Not regulated as a dangerous good

### 14.2 Proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class

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 73/78 and the IBC Code

Not applicable for product as supplied.

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## SECTION 15: REGULATORY INFORMATION

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 3

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

Water hazard class (Germany) : WGK 2 obviously hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) :

- Total dust: Not applicable
- Inorganic substances in powdered form: Not applicable
- Inorganic substances in vapour or gaseous form: Not applicable
- Organic Substances: Not applicable
- Carcinogenic substances: Not applicable
- Mutagenic: Not applicable
- Toxic to reproduction: Not applicable

### Notification status

TCSI : YES. On the inventory, or in compliance with the inventory

AIIC : YES. All components are listed on the inventory, regulatory obligations/restrictions apply

DSL : YES. All components of this product are on the Canadian DSL



ENCS	: YES. On the inventory, or in compliance with the inventory
ISHL	: YES. On the inventory, or in compliance with the inventory
KECI	: YES. On the inventory, or in compliance with the inventory
PICCS	: NO. Not in compliance with the inventory
IECSC	: YES. On the inventory, or in compliance with the inventory
NZloC	: NO. Not in compliance with the inventory
TECI	: NO. Not in compliance with the inventory
TSCA	: YES. All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption.

For explanation of abbreviation see section 16.

### Further information

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

## 15.2 Chemical safety assessment

2-Butoxyethanol	: No information available.
2-Propylheptanol ethoxylate	: A Chemical Safety Assessment is not required for this substance.
Diethanolamine	: A Chemical Safety Assessment has been carried out for this substance.

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## SECTION 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.

H302	: Harmful if swallowed.
H312	: Harmful in contact with skin.
H315	: Causes skin irritation.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H361fd	: Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	: May cause damage to organs through prolonged or repeated exposure if swallowed.
H411	: Toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.

### Classification procedure:

Acute toxicity, 4, H302, Calculation method

Acute toxicity, 4, H332, Calculation method

Acute toxicity, 4, H312, Calculation method

Skin irritation, 2, H315, Calculation method

Serious eye damage, 1, H318, Calculation method

Long-term (chronic) aquatic hazard, 3, H412, Calculation method

### Full text of other abbreviations

2000/39/EC	: Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
DE TRGS 900	: Germany. TRGS 900 - Occupational exposure limit values.

2000/39/EC / TWA	: Limit Value - eight hours
2000/39/EC / STEL	: Short term exposure limit
ACGIH / TWA	: 8-hour, time-weighted average
DE TRGS 900 / AGW	: Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

## Further information

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.