

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## A131-K21 hebro®ÖkoClean Top

Version: 2.15

Revision Date: 23.01.2025

Print Date: 24.01.2025

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

### 1.1 Product identifier

Trade name : A131-K21 hebro®ÖkoClean Top

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

Use of the Sub- : Cleaner for professional application in industry and trade  
stance/Mixture

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

Company : hebro chemie- ZN der Rockwood Specialties Group  
GmbH  
Rostocker Str. 40  
41199 Mönchengladbach

Contact person : Zentrale hebro chemie  
Telephone : +49 (0) 2166 6009-0  
Telefax : +49 (0) 2166 6009-99

Contact person product safety : Abteilung Produktsicherheit  
Telephone : +49(0)2166 6009-311  
E-mail address : msds.de@hebro-chemie.de

### 1.4 Emergency telephone number

: Giftinformationszentrum Erfurt:  
+49 (0) 361 730 730

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Serious eye damage, Category 1 H318: Causes serious eye damage.

Long-term (chronic) aquatic hazard, Cat- H412: Harmful to aquatic life with long lasting ef-  
egory 3 fects.

### 2.2 Label elements

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

Hazard pictograms :



Signal word : Danger

Hazard statements : H318 Causes serious eye damage.

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H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**

P273 Avoid release to the environment.

P280 Wear eye protection/ face protection.

**Response:**

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.

**Disposal:**

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

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

Isotridecanol, ethoxylated (7-<15 EO)

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

Isotridecanol, ethoxylated (>=2,5 - <=7 EO)

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

### 2.3 Other hazards

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.

Ecological information: This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

Toxicological information: This substance/mixture does not contain components considered to have endocrine disrupting properties for human health according to UK REACH Article 57(f).

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Alkaline cleaner based on lye and silicates

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Isotridecanol, ethoxylated (7-<15 EO)	69011-36-5 500-241-6	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 3 - < 10
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	68411-30-3 270-115-0 01-2119489428-22	Aquatic Chronic 3; H412 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 3 - < 10
Isotridecanol, ethoxylated (>=2,5 - <=7 EO)	69011-36-5 500-241-6	Eye Dam. 1; H318 Aquatic Chronic 3;	>= 3 - < 10

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sodium p-cumenesulphonate	15763-76-5 239-854-6 01-2119489411-37	H412 Eye Irrit. 2; H319	>= 2.5 - < 10
potassium p-cumenesulphonate	164524-02-1 01-2119489427-24	Eye Irrit. 2; H319	>= 2.5 - < 10
Amines, alkyldimethyl, N-oxides	61788-90-7 263-016-9	Aquatic Chronic 2; H411 Aquatic Acute 1; H400 <hr/> M-Factor (Acute aquatic toxicity): 1	>= 2.5 - < 10
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3 500-234-8 01-2119488639-16	Eye Dam. 1; H318 Aquatic Chronic 3; H412 Skin Irrit. 2; H315 <hr/> specific concentration limit Eye Irrit. 2; H319 > 5 - < 10 % Eye Dam. 1; H318 10 - 100 %	>= 1 - < 2.5
Alcohols, C12-15, polyethoxylated	68131-39-5 500-195-7	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400	>= 0.1 - < 0.25

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : If symptoms persist, call a physician.
- If inhaled : No special precautions required.
- In case of skin contact : After contact with skin, wash immediately with plenty of water.  
Take off all contaminated clothing immediately.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Call a physician immediately.
- If swallowed : Immediately give large quantities of water to drink.  
Prevent vomiting if possible.

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

- Risks : Causes serious eye damage.

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

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Water spray jet

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire-fighting : Combustion may cause:

Hazardous combustion products : Carbon oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

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

Personal precautions : Handle in accordance with good industrial hygiene and safety practice.

### 6.2 Environmental precautions

Environmental precautions : Inform the relevant authorities if it enters sewers, aquatic environment or soil.

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

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8., For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.  
Ensure adequate ventilation.  
Avoid formation of aerosol.  
For personal protection see section 8.  
Have eye wash bottle or eye rinse ready at the work place.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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

Requirements for storage areas and containers : Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep only in the original container at temperature not exceeding 50°C.

Further information on storage conditions : Protect from frost, heat and sunlight.

### 7.3 Specific end use(s)

Specific use(s) : Cleaner for professional application in industry and trade

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	Workers	Inhalation	Long-term systemic effects	12 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	12 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	170 mg/kg bw/day
sodium p-cumenesulphonate	Workers	Inhalation	Long-term systemic effects	26.9 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term local effects	0.096 mg/cm <sup>2</sup>
	Workers	Skin contact	Long-term systemic effects	136.25 mg/kg bw/day
potassium p-cumenesulphonate	Workers	Inhalation	Long-term systemic effects	26.9 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term local effects	0.096 mg/cm <sup>2</sup>
	Workers	Skin contact	Long-term systemic	136.25 mg/kg

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			effects	bw/day
Amines, alkyldime- thyl, N-oxides	Workers	Inhalation	Long-term systemic effects	15.5 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	11 mg/kg bw/day
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	Workers	Inhalation	Long-term systemic effects	175 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	2750 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Benzenesulfonic acid, C10-13- alkyl derivs., sodium salts	Fresh water	0.268 mg/l
	Marine water	0.0268 mg/l
	Sewage treatment plant	3.43 mg/l
	Fresh water sediment	8.1 mg/kg
	Marine sediment	8.1 mg/kg
	Soil	35 mg/kg
sodium p-cumenesulphonate	Fresh water	0.23 mg/l
	Marine water	0.023 mg/l
	Intermittent use/release	2.3 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	0.862 mg/kg
	Marine sediment	0.0862 mg/kg
potassium p-cumenesulphonate	Fresh water	0.23 mg/l
	Marine water	0.023 mg/l
	Intermittent use/release	2.3 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	0.862 mg/kg
	Marine sediment	0.0862 mg/kg
Amines, alkyldimethyl, N-oxides	Fresh water	0.0335 mg/l
	Marine water	0.00335 mg/l
	Intermittent use/release	0.0335 mg/l
	Sewage treatment plant	24 mg/l
	Fresh water sediment	1.14 mg/kg
	Marine sediment	0.114 mg/kg
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	Fresh water	0.24 mg/l
	Marine water	0.024 mg/l
	Sewage treatment plant	10000 mg/l
	Fresh water sediment	5.45 mg/kg
	Marine sediment	0.545 mg/kg
	Soil	0.946 mg/kg

## 8.2 Exposure controls

### Personal protective equipment

Eye/face protection : Face-shield  
Safety glasses with side-shields conforming to EN166

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Hand protection	
Material	: Protective gloves complying with EN 374.
Break through time	: > 60 min
Protective index	: Class 3
Material	: Nitrile rubber
Glove thickness	: 0.4 mm
Material	: butyl-rubber
Glove thickness	: 0.5 mm
Remarks	: The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this has to be observed.
Skin and body protection	: Chemical resistant protective clothing according to DIN EN 13034 (Type 6) Work uniform or laboratory coat.
Respiratory protection	: If product forms vapours or aerosols wear breathing protection.
Filter type	: ABEK-filter
Protective measures	: When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Follow the skin protection plan.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: red
Odour	: like lemon
Melting point/freezing point	: not determined
Boiling point/boiling range	:
Upper explosion limit / Upper flammability limit	: not determined
Lower explosion limit / Lower flammability limit	: not determined

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Auto-ignition temperature	:	not determined
pH	:	9 (20 °C) Concentration: 10 g/l
Viscosity Viscosity, kinematic	:	similar to water
Solubility(ies) Water solubility	:	completely soluble
Partition coefficient: n- octanol/water	:	Not applicable
Vapour pressure	:	not determined
Density	:	1.07 g/cm <sup>3</sup> (20 °C) Method: DIN 51757
Relative vapour density	:	not determined

### 9.2 Other information

Explosives	:	No data available
Substances and mixtures, which in contact with water, emit flammable gases	:	No data available
Metal corrosion rate	:	Not corrosive to metals

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

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### 10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

### 10.5 Incompatible materials

Materials to avoid : None known.

### 10.6 Hazardous decomposition products

Carbon dioxide (CO<sub>2</sub>)

Carbon monoxide

Smoke

Hazardous decomposition products : No decomposition if stored and applied as directed.

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## SECTION 11: Toxicological information

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

#### Acute toxicity

Not classified due to lack of data.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

#### Components:

##### **Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:**

Acute oral toxicity : LD50 (Rat): 1,080 mg/kg

##### **Isotridecanol, ethoxylated (>=2,5 - <=7 EO):**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

##### **Amines, alkyldimethyl, N-oxides:**

Acute oral toxicity : LD50 (Rat): > 300 - 2,000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 402

##### **Alcohols, C12-14, ethoxylated, sulfates, sodium salts:**

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg

Acute dermal toxicity : LD50 (Rat, female): 4,100 mg/kg

#### **Skin corrosion/irritation**

Not classified due to lack of data.

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### **Product:**

Remarks : According to the classification criteria of the European Union,  
the product is not considered as being a skin irritant.  
May cause skin irritation in susceptible persons.

### **Serious eye damage/eye irritation**

Causes serious eye damage.

### **Components:**

#### **sodium p-cumenesulphonate:**

Species : Rabbit  
Assessment : Irritating to eyes.  
Method : OECD Test Guideline 405  
Result : Eye irritation  
GLP : yes

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified due to lack of data.

#### **Respiratory sensitisation**

Not classified due to lack of data.

#### **Germ cell mutagenicity**

Not classified due to lack of data.

#### **Carcinogenicity**

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

### **Product:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

### **Reproductive toxicity**

Not classified due to lack of data.

#### **STOT - single exposure**

Not classified due to lack of data.

#### **STOT - repeated exposure**

Not classified due to lack of data.

### **Repeated dose toxicity**

### **Components:**

#### **Isotridecanol, ethoxylated (>=2,5 - <=7 EO):**

Species : Rat  
NOAEL : 50 mg/kg  
Application Route : Oral  
Number of exposures : /day  
Target Organs : Heart, Liver, Kidney

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### Aspiration toxicity

Not classified due to lack of data.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : This substance/mixture does not contain components considered to have endocrine disrupting properties for human health according to UK REACH Article 57(f),

### Further information

#### Product:

Remarks : Health injuries are not known or expected under normal use.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### **Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:**

Toxicity to fish : LC50 (Fish): 1.67 mg/l  
Exposure time: 96 h

NOEC (Fish): 0.25 mg/l  
Exposure time: 90 d

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 2.9 mg/l  
Exposure time: 48 h

NOEC (Daphnia (water flea)): 1.18 mg/l  
Exposure time: 21 d

Toxicity to algae/aquatic plants : EC50 (Algae): 47.3 mg/l  
Exposure time: 72 h

NOEC (Algae): 3.1 mg/l  
Exposure time: 15 d

#### **Isotridecanol, ethoxylated (>=2,5 - <=7 EO):**

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 1 - 10 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203

NOEC : 1.73 mg/l

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

Test Type: static test  
Method: OECD Test Guideline 202

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NOEC (Daphnia magna (Water flea)): 1.36 mg/l  
Exposure time: 21 d

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus): > 1 - 10 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

EC10 : 0.6 mg/l  
Exposure time: 72 h  
Test Type: static test

Toxicity to microorganisms : EC50 (activated sludge): 140 mg/l  
Test Type: Respiration inhibition

### **sodium p-cumenesulphonate:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to microorganisms : EC10 (activated sludge): > 1,000 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209

### **potassium p-cumenesulphonate:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to microorganisms : EC10 (activated sludge): > 1,000 mg/l  
Exposure time: 3 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 209

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### Amines, alkyldimethyl, N-oxides:

Toxicity to fish : LC50 (Pimephales promelas (Fathead minnow)): > 1 - 10 mg/l  
Exposure time: 96 h

NOEC (Pimephales promelas (Fathead minnow)): > 0.1 - 1  
mg/l  
Exposure time: 302 d

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l  
aquatic invertebrates Exposure time: 48 h  
Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): > 0.1 - 1 mg/l  
Exposure time: 21 d

Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): > 0.1 -  
plants 1 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Algae): > 0.01 - 0.1 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic tox- : 1  
icity)

### Alcohols, C12-14, ethoxylated, sulfates, sodium salts:

Toxicity to fish : LC50 (Fish): 7.1 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

NOEC (Fish): 1 mg/l  
Exposure time: 45 d  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 7.4 mg/l  
aquatic invertebrates Exposure time: 48 h  
Method: OECD Test Guideline 202

NOEC (Daphnia (water flea)): 1.2 mg/l  
Exposure time: 21 d

Toxicity to algae/aquatic : ErC50 (Algae): 27.7 mg/l  
plants Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Algae): 0.95 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

## 12.2 Persistence and degradability

### Components:

#### **Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:**

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Biodegradability : Biodegradation: > 60 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
Remarks: rapidly biodegradable  
The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.907/2006 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

### Isotridecanol, ethoxylated (>=2,5 - <=7 EO):

Biodegradability : Test Type: aerobic  
Biodegradation: > 60 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
Remarks: Readily biodegradable.  
This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

### Alcohols, C12-14, ethoxylated, sulfates, sodium salts:

Biodegradability : Biodegradation: 100 %  
Exposure time: 28 d  
Remarks: Readily biodegradable.  
  
Remarks: This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

## 12.3 Bioaccumulative potential

### Product:

Bioaccumulation : Remarks: No data available

### Components:

#### Isotridecanol, ethoxylated (>=2,5 - <=7 EO):

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

#### sodium p-cumenesulphonate:

Partition coefficient: n- : log Pow: 1.1  
octanol/water

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### 12.4 Mobility in soil

**Product:**

Mobility : Remarks: No data available

**Components:**

**Amines, alkyldimethyl, N-oxides:**

Distribution among environ- : Medium: Soil  
mental compartments Remarks: immobile

### 12.5 Results of PBT and vPvB assessment

**Product:**

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.

### 12.6 Endocrine disrupting properties

**Product:**

Assessment : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

### 12.7 Other adverse effects

**Product:**

Additional ecological infor- : Do not flush into surface water or sanitary sewer system.  
mation

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Product : Do not let product enter drains.  
Do not dispose of with domestic refuse.  
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
- Contaminated packaging : If recycling is not practicable, dispose of in compliance with local regulations.  
Since emptied containers retain product residues (vapour and/or liquid) follow all MSDS/label warnings after container is emptied.
- Waste Code : Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA\_P : Not regulated as a dangerous good

#### 14.2 UN proper shipping name

ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA\_P : Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA\_P : Not regulated as a dangerous good

#### 14.4 Packing group

ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA (Cargo) : Not regulated as a dangerous good  
IATA\_P (Passenger) : 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 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

### SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Conditions of restriction for the following entries should be considered:  
Number on list 3

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UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	: Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	: Not applicable
Regulation (EC) on substances that deplete the ozone layer	: Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	: Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	: Not applicable

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

## SECTION 16: Other information

### Full text of H-Statements

H302	: Harmful if swallowed.
H315	: Causes skin irritation.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H400	: Very toxic to aquatic life.
H411	: Toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Skin Irrit.	: Skin irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - 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;

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IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - 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; TECI - 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

Other information : The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.

The product is classified and labelled in accordance with EC directives or respective national laws.

Regional or national implementations of GHS may not implement all hazard classes and categories.

Guideline on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) : no component is listed

No PFAS are consciously added to the product concerning the restriction proposal for inclusion to REACH (Annex XVII).

### Classification of the mixture:

Eye Dam. 1	H318
Aquatic Chronic 3	H412

### Classification procedure:

Calculation method
Calculation method

GB / EN