

# SAFETY DATA SHEET

according to Chemicals Ordinance (ChemO 813.11)



## ALL CLEAR EXTRA

Version	Revision Date:	SDS Number:	Date of last issue: -
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Product name** ALL CLEAR EXTRA

#### Other means of identification

**Product code** 50000459

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

Use of the Sub- : Auxiliary washing mixture  
stance/Mixture

Recommended restrictions : Use as recommended by the label.  
on use

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

**Supplier Address** FMC International Switzerland Sàrl  
Chemin de Blandonnet 8  
1214 Vernier  
Switzerland

Telephone: +41 22 518 89 61  
E-mail address: SDS-Info@fmc.com .

#### 1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:  
Switzerland: 41-435082011 (CHEMTREC)  
1 703 / 741-5970 (CHEMTREC - International)  
1 202 / 483-7616 (CHEMTREC - Alternate International)

Medical emergency:  
Switzerland: 145

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

#### 2.2 Label elements

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### 2.3 Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	85480-55-3 287-335-8	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412  Acute toxicity estimate  Acute oral toxicity: 1.570 mg/kg	>= 10 - < 20
tetrasodium (1-hydroxyethylidene)bisphosphonate	3794-83-0 223-267-7	Eye Irrit. 2; H319	>= 3 - < 5
Alcohols, C12-15, ethoxylated	68131-39-5 500-195-7	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412  Acute toxicity estimate  Acute oral toxicity: 500 mg/kg	>= 1 - < 3
Substances with a workplace exposure limit :			
(2-methoxymethylethoxy)propanol	34590-94-8 252-104-2		>= 1 - < 3

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.

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Do not leave the victim unattended.

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|----------------------------|---|---|
| Protection of first-aiders | : | First Aid responders should pay attention to self-protection and use the recommended protective clothing<br>Avoid inhalation, ingestion and contact with skin and eyes.<br>If potential for exposure exists refer to Section 8 for specific personal protective equipment.  |
| If inhaled                 | : | Remove to fresh air.<br>If unconscious, place in recovery position and seek medical advice.<br>If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance. |
| In case of skin contact    | : | If on clothes, remove clothes.<br>If on skin, rinse well with water.<br>Wash off with soap and plenty of water.<br>Get medical attention immediately if irritation develops and persists.   |
| In case of eye contact     | : | Immediately flush eye(s) with plenty of water.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.   |
| If swallowed               | : | Do not induce vomiting without medical advice.<br>Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.   |

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

- |       |   |   |
|-------|---|---|
| Risks | : | Causes skin irritation.<br>Causes serious eye irritation. |
|-------|---|---|

### 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 | : | ABC powder<br>Dry chemical, CO <sub>2</sub> , water spray or regular foam.<br>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
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Unsuitable extinguishing media : Do not spread spilled material with high-pressure water streams.  
High volume water jet

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

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Fire may produce irritating, corrosive and/or toxic gases.  
Carbon oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Firefighters should wear protective clothing and 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.  
Use a water spray to cool fully closed containers.

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## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Keep people away from and upwind of spill/leak.  
Remove all sources of ignition.  
Immediately evacuate personnel to safe areas.  
Ensure adequate ventilation.  
If it can be safely done, stop the leak.  
Do not touch or walk through the spilled material.  
Never return spills in original containers for re-use.  
Mark the contaminated area with signs and prevent access to unauthorized personnel.  
Only qualified personnel equipped with suitable protective equipment may intervene.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, ver-

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miculite) and place in container for disposal according to local / national regulations (see section 13).

Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- |   |   |  |
|---|---|--|
| Advice on safe handling                         | : | Avoid formation of aerosol.<br>Do not breathe vapours/dust.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Provide sufficient air exchange and/or exhaust in work rooms.<br>Dispose of rinse water in accordance with local and national regulations. |
| Advice on protection against fire and explosion | : | Do not spray on a naked flame or any incandescent material.<br>Keep away from open flames, hot surfaces and sources of ignition.   |
| Hygiene measures                                | : | When using do not eat or drink. When using do not smoke.<br>Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing and gloves, including the inside, before re-use.   |

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

- |   |   |   |
|---|---|---|
| Requirements for storage areas and containers | : | No smoking. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. |
| Storage period                                | : | 24 Months   |
| Recommended storage temperature               | : | > 2 - < 40 °C   |
| Further information on storage stability      | : | No decomposition if stored and applied as directed.   |

### 7.3 Specific end use(s)

- |                 |   |                                |
|-----------------|---|--------------------------------|
| Specific use(s) | : | Cleaner for spraying equipment |
|-----------------|---|--------------------------------|

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
(2-methoxymethylethoxy)propanol	34590-94-8	TWA	50 ppm 300 mg/m <sup>3</sup>	CH SUVA
	Further information: National Institute for Occupational Safety and Health			
		STEL	50 ppm 300 mg/m <sup>3</sup>	CH SUVA
	Further information: National Institute for Occupational Safety and Health			
		TWA	50 ppm 308 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	Workers	Inhalation	Long-term systemic effects	12 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	170 mg/kg
	Consumers	Inhalation	Long-term systemic effects	3 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	85 mg/kg
tetrasodium (1-hydroxyethylidene)bisphosphonate	Consumers	Oral	Long-term systemic effects	0,85 mg/kg
	Workers	Inhalation	Long-term systemic effects	16,9 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	48 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	4,2 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	24 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	2,4 mg/kg bw/day
	Workers	Inhalation	Long-term local effects	10 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	10 mg/m <sup>3</sup>
Alcohols, C12-15, ethoxylated	Workers	Inhalation	Long-term systemic effects	294 mg/m <sup>3</sup>

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	Workers	Dermal	Long-term systemic effects	2080 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	87 mg/m3
	Consumers	Dermal	Long-term systemic effects	1250 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	25 mg/kg bw/day
(2-methoxymethylethoxy)propanol	Workers	Inhalation	Long-term systemic effects	308 mg/m3
	Workers	Dermal	Long-term systemic effects	283 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	37,2 mg/m3
	Consumers	Dermal	Long-term systemic effects	121 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	36 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	Fresh water	0,268 mg/l
	Marine water	0,027 mg/l
	Fresh water sediment	8,1 mg/kg
	Marine sediment	8,1 mg/kg
	Soil	35 mg/kg
tetrasodium (1-hydroxyethylidene)bisphosphonate	Fresh water	0,096 mg/l
	Marine water	0,01 mg/l
	Fresh water sediment	193 mg/kg dry weight (d.w.)
	Marine sediment	19,3 mg/kg dry weight (d.w.)
	Soil	14 mg/kg dry weight (d.w.)
	Oral	5,3 mg/kg dry weight (d.w.)
	Sewage treatment plant	58 mg/l
Alcohols, C12-15, ethoxylated	Fresh water	0,051 mg/l
	Intermittent use/release	0,001 mg/l
	Marine water	0,005 mg/l
	Intermittent use/release	0 mg/l
	Sewage treatment plant	10 g/l
	Fresh water sediment	81,64 mg/kg dry weight (d.w.)
	Marine sediment	8,16 mg/kg dry weight (d.w.)
	Soil	1 mg/kg dry

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		weight (d.w.)
(2-methoxymethylethoxy)propanol	Fresh water	19 mg/l
	Marine water	1,9 mg/l
	Fresh water sediment	70,2 mg/kg dry weight (d.w.)
	Marine sediment	7,02 mg/kg dry weight (d.w.)
	Soil	2,74 mg/kg dry weight (d.w.)
	Intermittent use (freshwater)	190 mg/l
	Sewage treatment plant	4168 mg/l

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Hand protection  
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Protective measures : Plan first aid action before beginning work with this product.  
Always have on hand a first-aid kit, together with proper instructions.  
Wear suitable protective equipment.  
When using do not eat, drink or smoke.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid  
Colour : yellow  
Odour : characteristic  
Odour Threshold : not determined  
Melting point/freezing point : No data available  
Boiling point/boiling range : No data available



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Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Flash point	:	> 60 °C
	:	Non-flammable
Decomposition temperature	:	No data available
pH	:	10,75 - 11,5
	:	Concentration: 1 %
Viscosity	:	
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Solubility(ies)	:	
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	Not available for this mixture.
Relative density	:	ca. 1,03 - 1,05 (20 °C)
Density	:	1.030 - 1.050 kg/m <sup>3</sup> (20 °C)
Relative vapour density	:	No data available
Particle characteristics	:	
Particle size	:	Not applicable

### 9.2 Other information

Explosives	:	No data available
Oxidizing properties	:	No data available
Flammability (liquids)	:	Not classified as a flammability hazard
Self-ignition	:	Not available for this mixture.
Evaporation rate	:	No data available
Miscibility with water	:	Miscible

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	No decomposition if stored and applied as directed.
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### 10.4 Conditions to avoid

Conditions to avoid	:	Heat, flames and sparks. Protect from frost, heat and sunlight.
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### 10.5 Incompatible materials

Materials to avoid	:	Avoid strong acids, bases, and oxidizers
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### 10.6 Hazardous decomposition products

Stable under recommended storage conditions.

## SECTION 11: Toxicological information

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

#### Acute toxicity

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

#### Product:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: Calculation method  
Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria are not met.

#### Components:

#### **Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:**

Acute oral toxicity : LD50 (Rat, male and female): 1.570 mg/kg

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402

#### **tetrasodium (1-hydroxyethylidene)bisphosphonate:**

Acute oral toxicity : LD50 (Rat, male and female): 2.850 mg/kg

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5.000 mg/kg

#### **Alcohols, C12-15, ethoxylated:**

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg  
Method: Expert judgement

Acute inhalation toxicity : LC50 (Rat, male and female): > 1,6 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

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### **(2-methoxymethylethoxy)propanol:**

Acute oral toxicity : LD50 Oral (Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: no mortality

Acute inhalation toxicity : LC0 (Rat, male and female): > 275 ppm  
Exposure time: 7 h  
Test atmosphere: vapour  
Remarks: no mortality

Acute dermal toxicity : LD50 Dermal (Rabbit, male): 10 ml/kg

### **Skin corrosion/irritation**

Causes skin irritation.

#### **Product:**

Assessment : Irritating to skin.  
Result : Inflammation

#### **Components:**

### **Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : irritating

### **tetrasodium (1-hydroxyethylidene)bisphosphonate:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

### **Alcohols, C12-15, ethoxylated:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
Remarks : Based on data from similar materials

### **(2-methoxymethylethoxy)propanol:**

Species : Human  
Result : No skin irritation

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

Causes serious eye irritation.

#### **Product:**

Species : Bovine cornea  
Assessment : Irritating to eyes.  
Result : Eye irritation  
Remarks : (Data on the product itself)

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Study conducted in February 2013 by Harlan Laboratories, study number 41300559. Product does not meet the classification criteria as "Eye Damage Category 1" (H318). Product classified as "Eye Irritant Category 2" (H319) based on study results.

### Components:

#### **Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:**

Species	: Rabbit
Result	: Irreversible effects on the eye

#### **tetrasodium (1-hydroxyethylidene)bisphosphonate:**

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: Irritation to eyes, reversing within 21 days

#### **Alcohols, C12-15, ethoxylated:**

Result	: Irreversible effects on the eye
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#### **(2-methoxymethylethoxy)propanol:**

Species	: Human
Result	: No eye irritation

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

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

#### **Respiratory sensitisation**

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

### Product:

Assessment	: Not a skin sensitizer.
Remarks	: Based on available data, the classification criteria are not met.

### Components:

#### **Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:**

Test Type	: Maximisation Test
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Not a skin sensitizer.

#### **tetrasodium (1-hydroxyethylidene)bisphosphonate:**

Test Type	: Maximisation Test
Species	: Guinea pig
Result	: Does not cause skin sensitisation.

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Remarks : Based on data from similar materials

### Alcohols, C12-15, ethoxylated:

Test Type	: Maximisation Test
Exposure routes	: Intradermal
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Not a skin sensitizer.
Remarks	: Based on data from similar materials

### (2-methoxymethylethoxy)propanol:

Species	: Humans
Result	: Does not cause skin sensitisation.

### Germ cell mutagenicity

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

### Components:

#### Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:

Genotoxicity in vitro	: Test Type: reverse mutation assay Method: Regulation (EC) No. 440/2008, Annex, B.13/14 (Ames test) Result: negative
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Genotoxicity in vivo	: Test Type: chromosome aberration assay Species: Mouse (male) Application Route: Ingestion Result: negative
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#### tetrasodium (1-hydroxyethylidene)bisphosphonate:

Genotoxicity in vitro	: Test Type: Micronucleus test Method: OECD Test Guideline 487 Result: negative Remarks: Based on data from similar materials
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	: Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials
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	: Test Type: reverse mutation assay Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Result: negative Remarks: Based on data from similar materials
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Genotoxicity in vivo	: Test Type: Rodent Dominant Lethal Assay Species: Mouse (male) Application Route: Oral
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Result: negative  
Remarks: Based on data from similar materials

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### Alcohols, C12-15, ethoxylated:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative  
Remarks: Based on data from similar materials

Test Type: Ames test  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative  
Remarks: Based on data from similar materials

Test Type: Bone marrow chromosome aberration  
Species: Rat (male and female)  
Method: OECD Test Guideline 475  
Result: negative  
Remarks: Based on data from similar materials

### (2-methoxymethylethoxy)propanol:

Genotoxicity in vitro : Test Type: reverse mutation assay  
Result: negative

Test Type: in vitro assay  
Result: negative

Test Type: Chromosome aberration test in vitro  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Result: negative  
Remarks: Based on data from similar materials

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### Carcinogenicity

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

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### Components:

#### **tetrasodium (1-hydroxyethylidene)bisphosphonate:**

Species	: Rat, male
Application Route	: Oral
Dose	: 19, 78, 384 mg/kg bw/day
NOAEL	: >= 384 mg/kg bw/day
Result	: negative
Remarks	: Based on data from similar materials

Carcinogenicity - Assessment	: Weight of evidence does not support classification as a carcinogen
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#### **(2-methoxymethylethoxy)propanol:**

Species	: Rat, male and female
Application Route	: inhalation (vapour)
Exposure time	: 2 years
Dose	: 300, 1000, 3000ppm
	: 300 ppm
Method	: OECD Test Guideline 453
Result	: negative
Remarks	: Based on data from similar materials

Carcinogenicity - Assessment	: Weight of evidence does not support classification as a carcinogen
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### **Reproductive toxicity**

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

### Components:

#### **Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:**

Effects on fertility	: Test Type: Two-generation study
	Species: Rat, male and female
	Application Route: Oral
	Method: OECD Test Guideline 416
	Result: negative

Effects on foetal development	: Test Type: reproductive and developmental toxicity study
	Species: Rat
	Application Route: Oral
	Result: positive

#### **tetrasodium (1-hydroxyethylidene)bisphosphonate:**

Effects on fertility	: Test Type: Two-generation study
	Species: Rat, female
	Application Route: Oral
	Dose: 0, 112, 447 mg/kg bw/d
	General Toxicity - Parent: LOAEL: 447 mg/kg bw/day
	General Toxicity F1: LOAEL: 447 mg/kg bw/day
	Remarks: Based on data from similar materials

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Effects on foetal development : Test Type: Two-generation study  
Species: Rat  
Application Route: Oral  
Dose: 0, 112, 447 mg/kg bw/d  
General Toxicity Maternal: LOAEL: 447 mg/kg bw/day  
Embryo-foetal toxicity: NOAEL: 447 mg/kg bw/day  
Result: negative  
Remarks: Based on data from similar materials

### Alcohols, C12-15, ethoxylated:

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Dermal  
General Toxicity - Parent: NOAEL: 250 mg/kg body weight  
Fertility: NOAEC Mating/Fertility: 250 mg/kg body weight  
Method: OECD Test Guideline 416  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat  
Application Route: Dermal  
General Toxicity Maternal: NOEL: 100 mg/kg body weight  
Embryo-foetal toxicity: NOAEL: > 250 mg/kg body weight  
Method: OECD Test Guideline 416  
Result: negative  
Remarks: Based on data from similar materials

### (2-methoxymethylethoxy)propanol:

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Inhalation  
Dose: 300, 1000, 3000ppm  
General Toxicity - Parent: NOAEL: 300  
General Toxicity F1: NOAEL: 1.000  
General Toxicity F2: NOAEL: 1.000  
Method: OECD Test Guideline 416  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Developmental Toxicity Screening Test  
Species: Rat  
Application Route: Inhalation  
Dose: 0, 50, 150, 300 parts per million  
General Toxicity Maternal: LOAEL: >= 300 part per million  
Teratogenicity: LOAEL: >= 300 part per million  
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity



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### STOT - single exposure

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

#### Components:

##### **tetrasodium (1-hydroxyethylidene)bisphosphonate:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT - repeated exposure

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

#### Components:

##### **(2-methoxymethylethoxy)propanol:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Repeated dose toxicity

#### Components:

##### **Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:**

Species : Rat, male and female  
NOAEL : 300 mg/kg  
Application Route : Oral - feed  
Exposure time : >75 d

##### **tetrasodium (1-hydroxyethylidene)bisphosphonate:**

Species : Rat, male and female  
NOAEL : 41 mg/kg bw/day  
LOAEL : 169 mg/kg bw/day  
Application Route : Oral - feed  
Exposure time : 90 d  
Dose : 41, 169, 817 mg/kg bw/day  
Method : OECD Test Guideline 408  
Remarks : Based on data from similar materials

##### **Alcohols, C12-15, ethoxylated:**

Species : Rat, male and female  
NOAEL : 500 mg/kg  
Application Route : Oral  
Exposure time : 90d  
Method : OECD Test Guideline 408  
Remarks : Based on data from similar materials

##### **(2-methoxymethylethoxy)propanol:**

Species : Rat, male and female

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NOAEL	:	200 mg/kg
Application Route	:	Oral
Exposure time	:	4 weeks
Dose	:	40, 200, 1000mg/kg
Species	:	Rat, male and female
NOAEL	:	200 ppm
Application Route	:	inhalation (vapour)
Exposure time	:	13 weeks
Dose	:	15, 50, 200 ppm
Species	:	Rabbit, male
NOAEL	:	2850 mg/kg bw/day
Application Route	:	Dermal
Exposure time	:	90d
Dose	:	1, 3, 5, 10 ml/kg
Remarks	:	mortality

### Aspiration toxicity

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

## 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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### Experience with human exposure

#### Product:

Inhalation	:	Target Organs: Respiratory system Symptoms: Irritation
Ingestion	:	Target Organs: Gastrointestinal tract Symptoms: Irritation, Nausea

### Further information

#### Product:

Remarks	:	No data available
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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Product:

Toxicity to fish : Remarks: No data is available on the product itself.

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data is available on the product itself.

Toxicity to algae/aquatic plants : Remarks: No data is available on the product itself.

##### Components:

##### **Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1,67 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,9 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 29 mg/l  
Exposure time: 96 h

Toxicity to fish (Chronic toxicity) : NOEC: 0,63 mg/l  
Exposure time: 196 d  
Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50: 1,7 mg/l  
Exposure time: 24 d  
Species: Hyalella azteca (Amphipod)  
Method: OECD Test Guideline 211

Toxicity to soil dwelling organisms : NOEC: 250 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 207

##### **tetrasodium (1-hydroxyethylidene)bisphosphonate:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 195 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Remarks: Based on data from similar materials

LC50 (Cyprinodon variegatus (sheepshead minnow)): 2.180 mg/l  
Exposure time: 96 h  
Test Type: static test  
Remarks: Based on data from similar materials

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- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 527 mg/l  
Exposure time: 48 h  
Test Type: static test  
Remarks: Based on data from similar materials
- LC50 (Palaeomonetes vulgaris (Grass shrimp)): 1.770 mg/l  
Exposure time: 96 h  
Test Type: static test  
Remarks: Based on data from similar materials
- Toxicity to microorganisms : NOEC (activated sludge): 200 mg/l  
Exposure time: 11 d  
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 6,75 mg/l  
Exposure time: 28 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Remarks: Based on data from similar materials
- Toxicity to soil dwelling organisms : NOEC: 500 mg/kg  
Exposure time: 28 d  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 222
- EC50: > 1.000 mg/kg  
Exposure time: 28 d  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 222
- Plant toxicity : NOEC: >= 960 mg/kg  
Exposure time: 14 d  
Species: Avena sativa (oats)  
Method: OECD Test Guideline 208
- Toxicity to terrestrial organisms : LC0: > 284 mg/kg  
Exposure time: 14 d  
Species: Anas platyrhynchos (Mallard duck)  
Remarks: Information given is based on data obtained from similar substances.
- LC50: > 284 mg/kg  
Exposure time: 14 d  
Species: Colinus virginianus (Bobwhite quail)  
Remarks: Information given is based on data obtained from similar substances.

### Alcohols, C12-15, ethoxylated:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 2 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

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- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 2 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 2 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials
- Toxicity to microorganisms : EC50 (Pseudomonas putida): > 10 g/l  
Exposure time: 16,9 h  
Remarks: Based on data from similar materials
- Toxicity to fish (Chronic toxicity) : NOEC: 0,11 - 0,28 mg/l  
Exposure time: 30 d  
Species: Pimephales promelas (fathead minnow)  
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,75 mg/l  
End point: Immobilization  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Remarks: Based on data from similar materials
- NOEC: 0,77 mg/l  
End point: reproduction  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Remarks: Based on data from similar materials
- Toxicity to soil dwelling organisms : LC50: > 1.000 mg/kg  
Species: Eisenia fetida (earthworms)

### (2-methoxymethylethoxy)propanol:

- Toxicity to fish : LC50 (Poecilia reticulata (guppy)): > 1.000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 1.919 mg/l  
Exposure time: 48 h  
Test Type: static test
- LC50 (Crangon crangon (shrimp)): > 1.000 mg/l  
Exposure time: 48 h  
Test Type: semi-static test
- Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 969 mg/l  
Exposure time: 72 h

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Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (green algae)): > 969 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC10 (Pseudomonas putida): 4.168 mg/l  
Exposure time: 18 h  
Test Type: Growth inhibition

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0,5 mg/l  
Exposure time: 22 d  
Species: Daphnia magna (Water flea)  
Test Type: flow-through test  
Remarks: No toxicity at the limit of solubility

### 12.2 Persistence and degradability

#### **Product:**

Biodegradability : Remarks: No data is available on the product itself.

#### **Components:**

##### **Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 85 %  
Exposure time: 29 d  
Method: OECD Test Guideline 301B

##### **tetrasodium (1-hydroxyethylidene)bisphosphonate:**

Biodegradability : Inoculum: activated sludge, non-adapted  
Result: Not readily biodegradable.  
Remarks: Based on data from similar materials

##### **Alcohols, C12-15, ethoxylated:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301B  
Remarks: Based on data from similar materials

##### **(2-methoxymethylethoxy)propanol:**

Biodegradability : Inoculum: activated sludge  
Result: Readily biodegradable.  
Method: OECD Test Guideline 301F

### 12.3 Bioaccumulative potential

#### **Product:**

Bioaccumulation : Remarks: No data is available on the product itself.

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### Components:

#### **Benzenesulfonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine:**

Bioaccumulation : Species: Pimephales promelas (fathead minnow)  
Bioconcentration factor (BCF): 2  
Method: OECD Test Guideline 305E

Partition coefficient: n-octanol/water : log Pow: 1,51 (25 °C)

#### **tetrasodium (1-hydroxyethylidene)bisphosphonate:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 71  
Remarks: Based on data from similar materials

Partition coefficient: n-octanol/water : log Pow: -3 (23 °C)  
pH: 11,4

#### **Alcohols, C12-15, ethoxylated:**

Bioaccumulation : Species: Pimephales promelas (fathead minnow)  
Exposure time: 24 d  
Bioconcentration factor (BCF): 237  
Remarks: Based on data from similar materials

Partition coefficient: n-octanol/water : log Pow: 4,91 - 6,78 (40 °C)

#### **(2-methoxymethylethoxy)propanol:**

Partition coefficient: n-octanol/water : log Pow: 0,004 (25 °C)

## 12.4 Mobility in soil

### Product:

Distribution among environmental compartments : Remarks: No data is available on the product itself.

## 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.

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### 12.6 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.

### 12.7 Other adverse effects

**Product:**

Additional ecological information : This product has no known ecotoxicological effects.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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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. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Triple rinse containers. Do not re-use empty containers. Packaging that is not properly emptied must be disposed of as the unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

---

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADN	: Not regulated as a dangerous good
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
IATA	: Not regulated as a dangerous good

### 14.2 UN proper shipping name



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ADN	: Not regulated as a dangerous good
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
IATA	: Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

ADN	: Not regulated as a dangerous good
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
IATA	: Not regulated as a dangerous good

### 14.4 Packing group

ADN	: Not regulated as a dangerous good
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 (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

Chemical Risk Reduction Ordinance (ORRChem, SR 814.81)	: Conditions of restriction for the following annexes should be considered: Annex 1.11 Dangerous liquid substances
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
PIC Ordinance, ChemPICO (814.82)	: Not applicable
Ordinance on Protection against Major Accidents Threshold quantity according to Major Accidents Ordinance (MAO 814.012)	: Not applicable

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Waters Protection Ordinance (WPO 814.201)

Water pollution class : Class B

### Other regulations:

Article 13 Maternity ordinance (SR 822.111.52): Expectant and nursing mothers are only permitted to come into contact with this product during the course of their work if, based on a risk assessment carried out in accordance with Article 63 of Ordinance 1 on the Employment Act (ArGV 1) (SR 822.111), the chemicals in question have been found not to cause any specific harm to mothers or children or if such harm can be ruled out by taking appropriate protective measures.

### The components of this product are reported in the following inventories:

TCSI	: On the inventory, or in compliance with the inventory
TSCA	: Product contains substance(s) not listed on TSCA inventory.
AIIC	: On the inventory, or in compliance with the inventory
DSL	: This product contains chemical substance(s) exempt from CEPA DSL Inventory requirements. It is regulated as a pesticide subject to Pest Control Products Act (PCPA) requirements. Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product.
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
TECI	: Not in compliance with the inventory

### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

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## SECTION 16: Other information

### Full text of H-Statements

H302 : Harmful if swallowed.

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H315 : Causes skin irritation.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H412 : Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Skin Irrit. : Skin irritation  
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values  
CH SUVA : Switzerland. Limit values at the work place  
2000/39/EC / TWA : Limit Value - eight hours  
CH SUVA / TWA : Time Weighted Average  
CH SUVA / STEL : Short Term Exposure Limit

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; 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; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Other information :

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### Classification of the mixture:

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Aquatic Chronic 3	H412

### Classification procedure:

Based on product data or assessment
Based on product data or assessment
Based on product data or assessment

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