

# SAFETY DATA SHEET



## SUCCESSOR ®, EC (CAKCECCOP™, KE)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	16.06.2025	50000661	Date of first issue: 16.06.2025

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

#### 1.1 Product identifier

**Product name** SUCCESSOR ®, EC (CAKCECCOP™, KE)

**Other means of identification**

**Product code** 50000661

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

Use of the Sub- : Herbicide  
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 Ukraine LLC  
8 Illinska Street  
04070 Kyiv  
Ukraine

Telephone: Website: fmc.com.ua  
E-mail address: SDS-Info@fmc.com, info@fmc.com.ua .

#### 1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:  
Ukraine: 380-947101374 (CHEMTREC)

Medical emergency:  
All other countries: +1 651 / 632-6793 (Collect)

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Acute toxicity, Category 4 H302: Harmful if swallowed.

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters air-ways.

Skin irritation, Category 2 H315: Causes skin irritation.

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Skin sensitisation, Sub-category 1A	H317: May cause an allergic skin reaction.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

## 2.2 Label elements

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

Hazard pictograms :



Signal word : Danger

Hazard statements :

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

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.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P331 Do NOT induce vomiting.

**Disposal:**

P501 Dispose of contents/container as hazardous waste in accordance with local regulations.

Hazardous components which must be listed on the label:

pethoxamid (ISO)

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified

calcium dodecylbenzenesulphonate

**Additional Labelling**

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EUH401      To avoid risks to human health and the environment, comply with the instructions for use.

### 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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
pethoxamid (ISO)	106700-29-2  616-145-00-3	Acute Tox. 4; H302 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 50 - < 70
Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	64742-94-5 265-198-5 649-424-00-3	Asp. Tox. 1; H304	>= 30 - < 50
Tristyrylphenol ethoxylates	99734-09-5	Aquatic Chronic 3; H412	>= 2,5 - < 10
calcium dodecylbenzenesulphonate	26264-06-2 247-557-8	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 4; H413	>= 2,5 - < 3
2-ethylhexan-1-ol	104-76-7 203-234-3	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system)	>= 1 - < 2,5

For explanation of abbreviations see section 16.

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**SECTION 4: First aid measures****4.1 Description of first aid measures**

- |                            |   |
|----------------------------|---|
| General advice             | : Move out of dangerous area.<br>Consult a physician.<br>Show this safety data sheet to the doctor in attendance.<br>Symptoms of poisoning may appear several hours later.<br>Do not leave the victim unattended.   |
| Protection of first-aiders | : Avoid inhalation, ingestion and contact with skin and eyes.   |
| 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     | : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.<br>In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.<br>Continue rinsing eyes during transport to hospital.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.        |
| If swallowed               | : Do NOT induce vomiting.<br>Rinse mouth with water.<br>Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>Take victim immediately to hospital.   |

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

- |       |   |
|-------|---|
| Risks | : The product contains petroleum distillates, which may pose an aspiration pneumonia hazard.<br><br>Harmful if swallowed.<br>May be fatal if swallowed and enters airways.<br>Causes skin irritation.<br>May cause an allergic skin reaction.<br>Causes serious eye damage. |
|-------|---|

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**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 : Dry chemical, CO<sub>2</sub>, water spray or regular foam.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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  
Sulphur oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Chlorinated compounds

**5.3 Advice for firefighters**

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

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.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Evacuate personnel to safe areas.  
Use personal protective equipment.  
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.

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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 : Neutralize with chalk, alkali solution or ammonia.  
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**

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.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

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

Hygiene measures : Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product. 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 : Prevent unauthorized access. Keep container tightly closed in a dry and 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.

Further information on storage : The product is stable under normal conditions of warehouse

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age conditions      storage. Protect from frost and extreme heat. Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. A warning sign reading "POISON" is recommended. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.

Further information on storage stability : Minimum storage temperature > 5°C, recommended >15°C  
No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Registered pesticide to be used in accordance with a label approved by country-specific regulatory authorities.

## 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-ethylhexan-1-ol	104-76-7	MAC (aerosol)	10 mg/m3	UA OEL
	Further information: Danger class 3			
		MAC (Vapour)	50 mg/m3	UA OEL
	Further information: Danger class 4			
		TWA	1 ppm 5,4 mg/m3	2017/164/EU
	Further information: Indicative			

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

Substance name	End Use	Exposure routes	Potential health effects	Value
pethoxamid (ISO)			Systemic effects	0,02 mg/kg

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

Substance name	Environmental Compartment	Value
pethoxamid (ISO)		0,29 µg/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.

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|--------------------------|--|
| Remarks                  | : The suitability for a specific workplace should be discussed with the producers of the protective gloves.  |
| Skin and body protection | : Impervious clothing<br>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.<br>Always have on hand a first-aid kit, together with proper instructions.<br>Wear suitable protective equipment.<br>When using do not eat, drink or smoke.<br><br>In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use. |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- |  |  |
|--|--|
| Physical state                                   | : liquid   |
| Colour   | : brown  |
| Odour  | : aromatic, hydrocarbon-like                                 |
| Odour Threshold                                  | : not determined   |
| pH   | : 3,2 (20 °C)<br>Concentration: 1 %<br>(as aqueous solution) |
| Melting point/freezing point                     | : not determined   |
| Boiling point/boiling range                      | : not determined   |
| Flash point                                      | : 102 °C<br>Method: closed cup                               |
| Evaporation rate                                 | : Not available for this mixture.                            |
| Upper explosion limit / Upper flammability limit | : not determined   |
| Lower explosion limit / Lower flammability limit | : not determined   |
| Vapour pressure                                  | : Not available for this mixture.                            |
| Relative vapour density                          | : 1  |
| Relative density                                 | :  |
| Density  | : 1,06 g/cm <sup>3</sup> (20 °C)                             |
| Solubility(ies)                                  | :  |
| Water solubility                                 | : No data available  |
| Solubility in other solvents                     | : No data available  |



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Partition coefficient: n-octanol/water	:	Not available for this mixture.
Auto-ignition temperature	:	No data available
Decomposition temperature	:	not determined
Viscosity	:	
Viscosity, dynamic	:	28,3 mPa.s (20 °C)
Viscosity, kinematic	:	56 mm <sup>2</sup> /s (20 °C)
Explosive properties	:	Not explosive
Oxidizing properties	:	Non-oxidizing

### 9.2 Other information

Particle size	:	Not applicable
Particle Size Distribution	:	Not applicable
Self-ignition	:	355 °C

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 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. Heating of the product will produce harmful and irritant vapours.
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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.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

#### Product:

Acute oral toxicity	:	LD50 (Rat): 813 mg/kg Method: OECD Test Guideline 401
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Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

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

### **Components:**

#### **pethoxamid (ISO):**

Acute oral toxicity : Acute toxicity estimate: 980 mg/kg

LD50 (Rat, male): 983 mg/kg  
Method: US EPA Test Guideline OPP 81-1  
Symptoms: Tremors, Breathing difficulties  
GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): > 4,16 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: US EPA Test Guideline OPP 81-3  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Highest attainable concentration.  
no mortality

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: US EPA Test Guideline OPP 81-2  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: no mortality

#### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 4,688 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

#### **Tristyrylphenol ethoxylates:**

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Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
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

### **calcium dodecylbenzenesulphonate:**

Acute oral toxicity : LD50 (Rat, male and female): 1.300 mg/kg  
Remarks: Based on data from similar materials

Acute inhalation toxicity : Remarks: Not classified

Acute dermal toxicity : LD50 (Rat, male and female): > 2000 milligram per kilogram  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

### **2-ethylhexan-1-ol:**

Acute oral toxicity : LD50 (Rat, male): 2.047 mg/kg

Acute inhalation toxicity : LC50 (Rat): 4,3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male and female): > 3.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### **Skin corrosion/irritation**

#### **Product:**

Species : Rabbit  
Assessment : Irritating to skin.  
Method : OECD Test Guideline 404  
Result : Skin irritation

#### **Components:**

##### **pethoxamid (ISO):**

Species : Rabbit  
Assessment : Not classified as irritant  
Method : US EPA Test Guideline OPP 81-5  
Result : slight irritation

##### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

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Species	:	Rabbit
Assessment	:	Repeated exposure may cause skin dryness or cracking.
Result	:	No skin irritation
Remarks	:	Minimal effects that do not meet the threshold for classification. Based on data from similar materials

### Tristyrylphenol ethoxylates:

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

### calcium dodecylbenzenesulphonate:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Skin irritation

### 2-ethylhexan-1-ol:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Skin irritation

### Serious eye damage/eye irritation

#### Product:

Species	:	Rabbit
Assessment	:	Risk of serious damage to eyes.
Method	:	OECD Test Guideline 405
Result	:	Irreversible effects on the eye

#### Components:

##### pethoxamid (ISO):

Species	:	Rabbit
Assessment	:	Not classified as irritant
Method	:	US EPA Test Guideline OPP 81-4
Result	:	slight irritation

##### Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Species	:	Rabbit
Assessment	:	No eye irritation
Remarks	:	Minimal effects that do not meet the threshold for classification. Based on data from similar materials

### Tristyrylphenol ethoxylates:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	No eye irritation

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**calcium dodecylbenzenesulphonate:**

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: Irreversible effects on the eye
Remarks	: Based on data from similar materials

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: Irreversible effects on the eye

**2-ethylhexan-1-ol:**

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

**Respiratory or skin sensitisation****Product:**

Species	: Guinea pig
Assessment	: The product is a skin sensitiser, sub-category 1A.
Method	: OECD Test Guideline 406
Result	: May cause sensitisation by skin contact.

**Components:****pethoxamid (ISO):**

Exposure routes	: Dermal
Species	: Guinea pig
Method	: US EPA Test Guideline OPPTS 870.2600
Result	: May cause sensitisation by skin contact.

Assessment	: Harmful if swallowed. May cause an allergic skin reaction.
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**Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Test Type	: Maximisation Test
Species	: Guinea pig
Result	: Not a skin sensitizer.
Remarks	: Based on data from similar materials

**calcium dodecylbenzenesulphonate:**

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

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**Germ cell mutagenicity****Product:**

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

**Components:****pethoxamid (ISO):**

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Result: negative

Test Type: In Vivo Rat Liver DNA Repair Test  
Species: Rat  
Application Route: Oral  
Result: negative

**Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Bone marrow chromosome aberration  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative

**Tristyrylphenol ethoxylates:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Remarks: No data available

**calcium dodecylbenzenesulphonate:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: chromosome aberration assay  
Species: Rat (male and female)  
Application Route: Oral  
Exposure time: 90 d  
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.

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**2-ethylhexan-1-ol:**

Genotoxicity in vitro	:	Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative
Genotoxicity in vivo	:	Test Type: Micronucleus test Species: Mouse Application Route: Intraperitoneal injection Result: negative

**Carcinogenicity****Product:**

Carcinogenicity - Assessment	:	Weight of evidence does not support classification as a carcinogen
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**Components:****pethoxamid (ISO):**

Species	:	Rat
Application Route	:	Oral
Exposure time	:	2 Years
LOAEL	:	17 mg/kg bw/day
Result	:	negative

Carcinogenicity - Assessment	:	Animal testing did not show any carcinogenic effects.
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**Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Species	:	Rat, male and female
Application Route	:	inhalation (vapour)
Exposure time	:	12 month(s)
NOAEC	:	1,8 mg/l
Result	:	negative
Remarks	:	Based on data from similar materials

Carcinogenicity - Assessment	:	Not classifiable as a human carcinogen.
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**calcium dodecylbenzenesulphonate:**

Species	:	Rat, male and female
Application Route	:	Oral
Exposure time	:	720 d
NOAEL	:	250 mg/kg body weight
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-ethylhexan-1-ol:**

Species	: Rat
Application Route	: Oral
Exposure time	: 24 month(s)
Result	: negative

**Reproductive toxicity****Product:**

Reproductive toxicity - Assessment	: Weight of evidence does not support classification for reproductive toxicity
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**Components:****pethoxamid (ISO):**

Effects on fertility	: Test Type: Two-generation study Species: Rat General Toxicity - Parent: NOAEL: 14 mg/kg bw/day Fertility: NOAEL: 112 mg/kg bw/day Result: negative
Effects on foetal development	: Test Type: Developmental toxicity study Species: Rat, female Application Route: Oral General Toxicity Maternal: NOAEL: 75 mg/kg bw/day Developmental Toxicity: NOAEL: 75 mg/kg bw/day Symptoms: Maternal effects Result: negative  Test Type: Developmental toxicity study Species: Rabbit, female Application Route: Oral General Toxicity Maternal: NOAEL: 50 mg/kg bw/day Developmental Toxicity: NOEL: 50 mg/kg bw/day Symptoms: Maternal effects Result: negative
Reproductive toxicity - Assessment	: Animal testing showed no reproductive toxicity.

**calcium dodecylbenzenesulphonate:**

Effects on fertility	: Test Type: Fertility/early embryonic development Species: Rat, male and female Application Route: Ingestion General Toxicity - Parent: NOAEL: 400 mg/kg body weight Method: OECD Test Guideline 422 Result: negative
Effects on foetal development	: Test Type: reproductive and developmental toxicity study Species: Rat



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Application Route: Ingestion  
General Toxicity Maternal: NOAEL: 300 mg/kg body weight  
Developmental Toxicity: NOAEL: 600 mg/kg body weight  
Method: OECD Test Guideline 422  
Result: negative

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

### 2-ethylhexan-1-ol:

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 414  
Result: negative

### STOT - single exposure

#### Components:

#### **pethoxamid (ISO):**

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

### 2-ethylhexan-1-ol:

Assessment : May cause respiratory irritation.

### STOT - repeated exposure

#### Components:

#### **pethoxamid (ISO):**

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

### Repeated dose toxicity

#### Components:

#### **pethoxamid (ISO):**

Species : Rat  
LOAEL : 36.2 mg/kg bw/day  
Application Route : Oral - feed  
Exposure time : 90 Days  
Method : OECD Test Guideline 408  
Remarks : Effects are of limited toxicological significance.

### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Species : Rat, male and female  
NOAEC : 0,9 - 1,8 mg/l

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Application Route : inhalation (vapour)  
Exposure time : 12 Months

### calcium dodecylbenzenesulphonate:

Species : Rat, male and female  
NOAEL : 85 mg/kg  
LOAEL : 145 mg/kg  
Application Route : Oral  
Exposure time : 9 Months  
Remarks : Based on data from similar materials

Species : Rat, male  
LOAEL : 286 mg/kg  
Application Route : Skin contact  
Exposure time : 15 Days  
Remarks : Based on data from similar materials

Species : Rat, male and female  
NOAEL : 100 mg/kg bw/day  
LOAEL : 200 mg/kg bw/day  
Application Route : Oral - gavage  
Exposure time : 28 - 54 Days  
Method : OECD Test Guideline 422  
Remarks : Based on data from similar materials

### 2-ethylhexan-1-ol:

Species : Rat  
NOAEL : 250 mg/kg  
Application Route : Oral  
Exposure time : 13 Weeks  
Method : OECD Test Guideline 408

### Aspiration toxicity

#### Product:

May be fatal if swallowed and enters airways.

Remarks : Based on data from a similar product.

#### Components:

##### **pethoxamid (ISO):**

No aspiration toxicity classification

##### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

May be fatal if swallowed and enters airways.

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**Experience with human exposure****Components:****Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Skin contact : Symptoms: Repeated exposure may cause skin dryness or cracking.

**Neurological effects****Components:****pethoxamid (ISO):**

No neurotoxicity observed in animal studies

**Further information****Product:**

Remarks : Solvents may degrease the skin.

**Components:****Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Remarks : Vapour concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects. Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

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**SECTION 12: Ecological information****12.1 Toxicity****Product:**

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 4,03 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 21 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 25.6 µg/l Exposure time: 72 h  EC50 (Lemna gibba (duckweed)): 70.4 µg/l Exposure time: 7 d

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NOEC (Lemna gibba (duckweed)): 0.32 µg/l  
Exposure time: 7 d

Toxicity to terrestrial organisms : LD50: > 107 µg/bee  
Exposure time: 48 h  
Species: Apis mellifera (bees)

### Components:

#### **pethoxamid (ISO):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2,2 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

NOEC (Oncorhynchus mykiss (rainbow trout)): 1,7 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

LC50 (Lepomis macrochirus (Bluegill sunfish)): 6,6 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 20 - 25 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes

NOEC (Daphnia magna (Water flea)): 17 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Selenastrum capricornutum (green algae)): 0,00195 mg/l  
Exposure time: 72 h

ErC50 (Lemna gibba (duckweed)): 0,0172 mg/l  
End point: Growth rate  
Exposure time: 14 d

ErC50 (Lemna minor (duckweed)): 0,018 mg/l  
Exposure time: 14 d  
GLP: yes

ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,004 mg/l  
Exposure time: 72 h  
Test Type: static test

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,0012 mg/l  
Exposure time: 120 h  
Test Type: static test

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EC50 (Anabaena flos-aquae (cyanobacterium)): 9,4 mg/l  
Exposure time: 96 h

M-Factor (Acute aquatic toxicity) : 100

Toxicity to fish (Chronic toxicity) : NOEC: 0,0924 mg/l  
Exposure time: 28 d  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 2,8 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 10

Toxicity to soil dwelling organisms : LC50: 527 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)

Method: OECD Test Guideline 216  
Remarks: No significant adverse effect on nitrogen mineralization.

Method: OECD Test Guideline 217  
Remarks: No significant adverse effect on carbon mineralization.

Toxicity to terrestrial organisms : LD50: 84.4 -120.5  
End point: Acute oral toxicity  
Species: Apis mellifera (bees)

LD50: > 200 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity  
Species: Apis mellifera (bees)

LD50: ca. 1.500 - 2.100 mg/kg  
Species: Colinus virginianus (Bobwhite quail)  
Method: EPA OPP 71-1

### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 1,4 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

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Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): 1 - 3 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : LL50 (Tetrahymena pyriformis): 677,9 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EL50: 0,89 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### Tristyrylphenol ethoxylates:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 21 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to microorganisms :  
Remarks: No data available

### calcium dodecylbenzenesulphonate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 10 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

LC50 (Pimephales promelas (fathead minnow)): 4,6 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3,5 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 7,9 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

EC50 (Pseudokirchneriella subcapitata (green algae)): 65,4 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (activated sludge): 500 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,65 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Remarks: Based on data from similar materials

NOEC: 1,18 mg/l  
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  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 207

Toxicity to terrestrial organisms : LD50: 1.356 mg/kg  
Exposure time: 14 d  
Species: Colinus virginianus (Bobwhite quail)  
Method: OECD Test Guideline 223

### 2-ethylhexan-1-ol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 17,1 - 28,2 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 39 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC10 (Desmodesmus subspicatus (green algae)): 3,2 mg/l  
Exposure time: 72 h

EC50 (Desmodesmus subspicatus (green algae)): 11,5 mg/l  
Exposure time: 72 h

Toxicity to microorganisms : EC50 (Anabaena flos-aquae (cyanobacterium)): 16,6 mg/l  
Exposure time: 72 h

## 12.2 Persistence and degradability

### Product:

Biodegradability : Remarks: Product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants.

### Components:

#### **pethoxamid (ISO):**

Biodegradability : Remarks: Not readily biodegradable.

#### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Biodegradability : Result: Readily biodegradable.

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Biodegradation: 58,6 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
Remarks: Based on data from similar materials

### **Tristyrylphenol ethoxylates:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 8 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301

### **calcium dodecylbenzenesulphonate:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301E

### **2-ethylhexan-1-ol:**

Biodegradability : Result: Readily biodegradable.

## **12.3 Bioaccumulative potential**

### **Product:**

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

### **Components:**

#### **pethoxamid (ISO):**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-  
octanol/water : log Pow: 2,96 (20 °C)  
pH: 5

#### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Bioaccumulation : Remarks: The product/substance has a potential to bioaccumulate.

Partition coefficient: n-  
octanol/water : log Pow: 3,72  
Method: QSAR

### **Tristyrylphenol ethoxylates:**

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

### **calcium dodecylbenzenesulphonate:**

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 70,79  
Method: QSAR

Partition coefficient: n- : log Pow: 4,77 (25 °C)



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octanol/water

### 2-ethylhexan-1-ol:

Partition coefficient: n-octanol/water : log Pow: 2,9 (25 °C)

## 12.4 Mobility in soil

### Product:

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

### Components:

#### pethoxamid (ISO):

Distribution among environmental compartments : Remarks: Moderately mobile in soils

Stability in soil :

#### Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Distribution among environmental compartments : Remarks: Expected to partition to sediment and wastewater solids. Moderately volatile.

## 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 Other adverse effects

### Product:

Endocrine disrupting potential : 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.

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

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**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

**ADR** : UN 3082  
**IMDG** : UN 3082  
**IATA** : UN 3082

#### 14.2 UN proper shipping name

**ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Pethoxamide, ALKYL(C3-C6)BENZENES)

**IMDG** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Pethoxamide, ALKYL(C3-C6)BENZENES)

**IATA** : Environmentally hazardous substance, liquid, n.o.s.  
(Pethoxamide, ALKYL(C3-C6)BENZENES)

#### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
<b>ADR</b>	: 9	
<b>IMDG</b>	: 9	
<b>IATA</b>	: 9	

#### 14.4 Packing group

**ADR**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

**IMDG**  
Packing group : III  
Labels : 9

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EmS Code : F-A, S-F

### IATA (Cargo)

Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

### IATA (Passenger)

Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

## 14.5 Environmental hazards

### ADR

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

### IATA (Passenger)

Environmentally hazardous : yes

### IATA (Cargo)

Environmentally hazardous : yes

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

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

TCSI : Not in compliance with the inventory  
TSCA : Product contains substance(s) not listed on TSCA inventory.  
AIIIC : Not 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) require-

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ments. 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	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
NZIoC	: Not in compliance with the inventory
TECI	: Not in compliance with the inventory

### 15.2 Chemical safety assessment

A chemical safety assessment is not required for this product (mixture).

## SECTION 16: Other information

### Full text of H-Statements

H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.
H413	: May cause long lasting harmful effects to aquatic life.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT SE	: Specific target organ toxicity - single exposure
2017/164/EU	: Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values
UA OEL	: Ukraine OEL - Order on Approval of the Hygienic Regulations of Chemicals in the Air of the Working Zone
2017/164/EU / TWA	: Limit Value - eight hours

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UA OEL / MAC : Maximum allowable concentration

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; 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 :

#### Classification of the mixture:

Acute Tox. 4	H302
Asp. Tox. 1	H304
Skin Irrit. 2	H315
Skin Sens. 1A	H317
Eye Dam. 1	H318
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

#### Classification procedure:

Based on product data or assessment
Based on product data or assessment
Based on product data or assessment
Based on product data or assessment
Based on product data or assessment
Based on product data or assessment
Calculation method

### Disclaimer

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