

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2015/830 of amending  
Regulation (EC) No 1907/2006



## SPOTLIGHT PLUS

Version	Revision Date:	SDS Number:	Date of last issue: 09.06.2021
1.1	02.08.2021	50000505	Date of first issue: 09.06.2021

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

#### 1.1 Product identifier

##### Other means of identification

**Product code** 50000505

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

<b>Use of the Sub- stance/Mixture</b>	Herbicide
<b>Recommended restrictions on use</b>	Use as recommended by the label.

#### 1.3 Manufacturer or supplier's details

**Manufacturer** Cheminova AS  
Thyboronvej 78  
Harboore DK, 7673

**Contact person** SDS-Info@fmc.com (E-Mail General Information)

**1.4 Emergency telephone number** For leak, fire, spill or accident emergencies, call:  
Finland: 358-942419014 (CHEMTREC)

Medical emergency:  
Finland: 0800 147 111

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

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)**



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- Hazard pictograms :  
- Signal word : Warning
- Hazard statements : H317 May cause an allergic skin reaction.  
H410 Very toxic to aquatic life with long lasting effects.
- Supplemental Hazard Statements : EUH401 To avoid risks to human health and the environment, comply with the instructions for use.  
EUH066 Repeated exposure may cause skin dryness or cracking.
- Precautionary statements : P102 Keep out of reach of children.
- Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P391 Collect spillage.
- Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Additional Labelling

Restricted to professional users.

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 16,11 %

### 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.	Classification	Concentration (% w/w)

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	Registration number		
carfentrazone-ethyl (ISO)	128639-02-1 607-309-00-5	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 100	$\geq 2,5 - < 10$
Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3- tetramethyl-1- [(trimethylsi- lyl)oxy]disiloxanyl]propyl] ether	134180-76-0	Acute Tox. 4; H332 Acute Tox. 4; H312 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	$\geq 2,5 - < 10$
Benzenesulfonic acid, mono-C11- 13-branched alkyl derivs., calcium salts	68953-96-8 273-234-6	Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411	$\geq 1 - < 2,5$
Solvent naphtha (petroleum), light arom.	64742-95-6 265-199-0 649-356-00-4	Flam. Liq. 3; H226 Muta. 1B; H340 Carc. 1B; H350 STOT SE 3; H335 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	$\geq 0,25 - < 1$

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.  
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical  
advice.  
If symptoms persist, call a physician.
- In case of skin contact : If on skin, rinse well with water.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.

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Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

Risks : May cause an allergic skin reaction.

### 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.

Unsuitable extinguishing media : 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 : Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides  
Chlorine compounds  
Fluorine 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 : Use personal protective equipment.

### 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.

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

Methods for cleaning up : 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 : 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.  
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 : Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage : Do not store near acids.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : No data available

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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
Solvent naphtha (petroleum), light arom.	64742-95-6	HTP-arvot 8h	100 mg/m <sup>3</sup>	FI OEL

##### 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-C11-13-branched alkyl derivs., calcium salts	Workers	Inhalation	Long-term systemic effects	6 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	8,5 mg/kg bw/day
Solvent naphtha (petroleum), light arom.	Workers	Inhalation	Long-term systemic effects	1300 mg/m <sup>3</sup>

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

Substance name	Environmental Compartment	Value
2-ethylhexyl oleate	Fresh water sediment	1,44 mg/kg dry weight (d.w.)
	Marine sediment	1,44 mg/kg dry weight (d.w.)
	Soil	20 mg/kg dry weight (d.w.)
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	Fresh water	0,023 mg/l
	Marine water	0,002 mg/l
	Sewage treatment plant	5,5 mg/l
	Fresh water sediment	1,35 mg/kg
	Marine sediment	0,135 mg/kg
	Soil	0,124 mg/kg
	Intermittent use (freshwater)	0,290 mg/l

#### 8.2 Exposure controls

##### Personal protective equipment

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Hand protection

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

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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	:	No personal respiratory protective equipment normally required.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	yellow-orange
Odour	:	oily
pH	:	4,86 Concentration: 10 g/l
Flash point	:	111 °C
Relative density	:	0,9308 (20 °C)
Solubility(ies)	:	
Water solubility	:	dispersible
Viscosity	:	
Viscosity, kinematic	:	20,42 mm <sup>2</sup> /s (40 °C)
Explosive properties	:	Not explosive
Oxidizing properties	:	Non-oxidizing

### 9.2 Other information

Self-ignition	:	356 °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

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Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : Not applicable

### 10.6 Hazardous decomposition products

No data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5,11 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

#### Components:

##### **carfentrazone-ethyl (ISO):**

Acute oral toxicity : LD50 (Rat): 5.143 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5,09 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rat): > 4.000 mg/kg

##### **Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether:**

Acute oral toxicity : LD50 (Colinus virginianus (Bobwhite quail)): > 2.250 mg/kg

Acute inhalation toxicity : LC50 (Rat): 1,08 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 1.550 mg/kg  
LD50 (Rat): > 2.000 mg/kg

##### **Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**



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Acute oral toxicity : LD0 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: no mortality

Acute dermal toxicity : LD50 (Rat, male and female): > 1.000 - 1.600 mg/kg  
Method: OECD Test Guideline 402

### **Solvent naphtha (petroleum), light arom.:**

Acute oral toxicity : LD50 (Rat, female): 3.492 mg/kg  
Method: OECD Test Guideline 401

LD50 (Rat, male): > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 6,193 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: no mortality

Acute dermal toxicity : LD50 (Rabbit, male and female): > 3.160 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### **Skin corrosion/irritation**

Not classified based on available information.

#### **Product:**

Result : No skin irritation

#### **Components:**

##### **carfentrazone-ethyl (ISO):**

Species : Rabbit  
Result : No skin irritation

##### **Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether:**

Result : slight irritation

##### **Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

Species : Rabbit  
Result : Skin irritation

##### **Solvent naphtha (petroleum), light arom.:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Mild skin irritation

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### Serious eye damage/eye irritation

Not classified based on available information.

#### Product:

Assessment : Mild eye irritation

#### Components:

##### carfentrazone-ethyl (ISO):

Species : Rabbit  
Result : slight irritation

##### Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether:

Result : Moderate eye irritation

##### Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Species : Rabbit  
Result : Irreversible effects on the eye

##### Solvent naphtha (petroleum), light arom.:

Species : Rabbit  
Result : No eye irritation

### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### Respiratory sensitisation

Not classified based on available information.

#### Product:

Assessment : May cause sensitisation by skin contact.

#### Components:

##### carfentrazone-ethyl (ISO):

Species : Guinea pig  
Result : Does not cause skin sensitisation.

##### Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether:

Species : Guinea pig  
Result : negative

##### Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

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Test Type	: Maximisation Test
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Does not cause skin sensitisation.

### **Solvent naphtha (petroleum), light arom.:**

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

### **Germ cell mutagenicity**

Not classified based on available information.

### **Product:**

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

#### **carfentrazone-ethyl (ISO):**

Genotoxicity in vitro	: Result: negative
Genotoxicity in vivo	: Result: negative

#### **Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether:**

Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Method: OECD Test Guideline 473 Result: negative
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Genotoxicity in vivo	: Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Intraperitoneal injection Result: negative
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#### **Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

Genotoxicity in vitro	: Test Type: In vitro mammalian cell gene mutation test Result: negative Remarks: Based on data from similar materials  Test Type: reverse mutation assay Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Result: negative
Genotoxicity in vivo	: Test Type: Micronucleus test

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Species: Mouse (male and female)  
Application Route: Oral  
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.

### **Solvent naphtha (petroleum), light arom.:**

Genotoxicity in vitro : Test Type: in vitro DNA damage and/or repair study  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: reverse mutation assay  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: Bone marrow chromosome aberration  
Species: Rat (male and female)  
Application Route: Inhalation  
Result: negative

### **Carcinogenicity**

Not classified based on available information.

#### **Product:**

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

#### **Components:**

##### **carfentrazone-ethyl (ISO):**

Result : negative

### **Reproductive toxicity**

Not classified based on available information.

#### **Product:**

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

#### **Components:**

##### **Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

Effects on fertility : Test Type: Three-generation study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 14, 70, 350 mg/kg bw d  
General Toxicity - Parent: NOAEL: 350 mg/kg body weight

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General Toxicity F1: NOAEL: 350 mg/kg bw/day  
General Toxicity F2: NOAEL: 350 mg/kg bw/day  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat  
Application Route: Oral  
Dose: 0.2, 2.0, 300 and 600 mg/kg  
Duration of Single Treatment: 20 d  
General Toxicity Maternal: LOAEL: 600 mg/kg body weight  
Teratogenicity: LOAEL: 600 mg/kg bw/day  
Result: negative  
Remarks: Based on data from similar materials

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

### **Solvent naphtha (petroleum), light arom.:**

Effects on fertility : Test Type: Three-generation study  
Species: Rat  
Application Route: inhalation (vapour)  
Fertility: NOAEC Mating/Fertility: 7,5 mg/l  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Species: Mouse  
Application Route: inhalation (vapour)  
General Toxicity Maternal: LOAEC: 500 part per million  
Symptoms: Maternal effects

### **STOT - single exposure**

Not classified based on available information.

### **Product:**

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

### **Components:**

#### **Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

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

#### **Solvent naphtha (petroleum), light arom.:**

Assessment : May cause respiratory irritation., May cause drowsiness or dizziness.

### **STOT - repeated exposure**

Not classified based on available information.

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### Components:

#### **Solvent naphtha (petroleum), light arom.:**

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

#### **Repeated dose toxicity**

### Components:

#### **Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether:**

Species	: Rat
NOAEL	: 200 mg/kg
Application Route	: Oral
Exposure time	: 28 d
Method	: OECD Test Guideline 407

#### **Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

Species	: Rat, male and female
NOAEL	: 40 mg/kg bw/day
LOAEL	: 115 mg/kg bw/day
Application Route	: Oral - feed
Exposure time	: 6 months
Dose	: 40, 115, 340, 1030 mg/kg bw d
Remarks	: Based on data from similar materials

#### **Solvent naphtha (petroleum), light arom.:**

Species	: Rat, male and female
	: 0,8 - 0,9 mg/l
Application Route	: Inhalation
Test atmosphere	: vapour
Remarks	: Based on data from similar materials

Species	: Rat, male
NOAEL	: 600 mg/kg
Application Route	: Oral
Remarks	: Based on data from similar materials

#### **Aspiration toxicity**

Not classified based on available information.

### Product:

No aspiration toxicity classification

### Components:

#### **Solvent naphtha (petroleum), light arom.:**

May be fatal if swallowed and enters airways.

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### Further information

#### Product:

Remarks : No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to algae/aquatic plants : ErC50 (algae): 0,45 mg/l

NOEC (algae): 0,1 mg/l

#### Components:

##### **carfentrazone-ethyl (ISO):**

Toxicity to fish : LC50 (Fish): 1,6 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 9,8 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (algae): 0,012 mg/l  
Exposure time: 72 h

NOEC (algae): 0,001 mg/l  
Exposure time: 96 h

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC: 0,0187 mg/l  
Exposure time: 21 d  
Species: Fish

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,22 mg/l  
Exposure time: 21 d  
Species: Crustaceans

M-Factor (Chronic aquatic toxicity) : 100

##### **Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2,1 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1,1 mg/l

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aquatic invertebrates                      Exposure time: 48 h

Toxicity to algae/aquatic plants                      :    EC50 (Scenedesmus subspicatus): 28,2 mg/l  
Exposure time: 72 h

EC50 (Scenedesmus subspicatus): 152,2 mg/l  
Exposure time: 72 h

### **Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

Toxicity to fish                      :    LC50 (Danio rerio (zebra fish)): 31,6 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates                      :    EC50 (Daphnia magna (Water flea)): 62 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  
Remarks: Based on data from similar materials

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,5 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to microorganisms                      :    EC50 (activated sludge): 550 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity)                      :    NOEC: 0,23 mg/l  
Exposure time: 72 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Test Type: flow-through test  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)                      :    NOEC: 1,18 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: flow-through test  
Remarks: Based on data from similar materials

Toxicity to soil dwelling organisms                      :    NOEC: 250 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 207  
Remarks: Based on data from similar materials

LC50: > 1.000 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 207



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Remarks: Based on data from similar materials

Plant toxicity : EC50: 167 mg/kg  
Exposure time: 21 d  
Species: Sorghum bicolor (sorghum)

80 mg/kg  
Exposure time: 14 d  
Species: Avena sativa (oats)

Toxicity to terrestrial organisms : EC10: 82 mg/kg  
Exposure time: 21 d  
Species: Hypoaspis aculeifer  
Remarks: Information given is based on data obtained from similar substances.

### Solvent naphtha (petroleum), light arom.:

Toxicity to fish : NOEC (Oncorhynchus mykiss (rainbow trout)): 4,5 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

LL50 (Pimephales promelas (fathead minnow)): 8,2 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 4,5 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (microalgae)): 3,1 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (Tetrahymena pyriformis): 15,41 mg/l  
Exposure time: 40 h  
Test Type: Growth inhibition  
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Toxicity to fish (Chronic toxicity) : NOELR: 2,6 mg/l  
Exposure time: 14 d  
Species: Pimephales promelas (fathead minnow)  
Method: OECD Test Guideline 204  
Remarks: Based on data from similar materials

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Toxicity to daphnia and other : NOELR: 2,6 mg/l  
aquatic invertebrates (Chron- Exposure time: 21 d  
ic toxicity) Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### 12.2 Persistence and degradability

#### Components:

##### **carfentrazone-ethyl (ISO):**

Biodegradability : Result: Not readily biodegradable.

##### **Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

Biodegradability : Inoculum: activated sludge, non-adapted  
Result: Not readily biodegradable.  
Biodegradation: 2,9 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301E  
  
Result: Inherently biodegradable.  
Biodegradation: > 35 - 45 %  
Exposure time: 10 d

##### **Solvent naphtha (petroleum), light arom.:**

Biodegradability : Concentration: 49,2 mg/l  
Result: Inherently biodegradable.  
Biodegradation: 77,05 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

### 12.3 Bioaccumulative potential

#### Components:

##### **Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:**

Bioaccumulation : Bioconcentration factor (BCF): 3,16  
Method: QSAR

Partition coefficient: n- : log Pow: 4,595 (20 °C)  
octanol/water

### 12.4 Mobility in soil

No data available

### 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

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0.1% or higher..

### 12.6 Other adverse effects

#### Product:

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.

## 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.  
Dispose of as unused product.  
Do not re-use empty containers.

## SECTION 14: Transport information

### 14.1 UN number

ADN	: UN 3082
ADR	: UN 3082
RID	: UN 3082
IMDG	: UN 3082
IATA	: UN 3082

### 14.2 UN proper shipping name

ADN	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Carfentrazone-ethyl)
ADR	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Carfentrazone-ethyl)
RID	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Carfentrazone-ethyl)
IMDG	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Carfentrazone-ethyl)

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**IATA** : Environmentally hazardous substance, liquid, n.o.s.  
(Carfentrazone-ethyl)

### 14.3 Transport hazard class(es)

<b>ADN</b>	: 9
<b>ADR</b>	: 9
<b>RID</b>	: 9
<b>IMDG</b>	: 9
<b>IATA</b>	: 9

### 14.4 Packing group

**ADN**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

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

**RID**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

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

### 14.5 Environmental hazards

**ADN**  
Environmentally hazardous : yes

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### ADR

Environmentally hazardous : yes

### RID

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

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

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

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

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

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

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

Solvent naphtha (petroleum), light arom. (Number on list 29, 28)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E1 ENVIRONMENTAL

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### HAZARDS

#### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

#### 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.
AICS	: Not in compliance with the inventory
DSL	: This product contains the following components that are not on the Canadian DSL nor NDSL.

ETHYL (RS)-2-CHLORO-3-{2-CHLORO-5-[4-(DIFLUOROMETHYL)-4,5-DIHYDRO-3-METHYL-5-OXO-1H-1,2,4-TRIAZOL-1-YL]-4-FLUOROPHENYL}PROPIONATE

Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether 2-ethylhexyl oleate

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

### 15.2 Chemical safety assessment

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

## SECTION 16: Other information

#### Full text of H-Statements

H226	: Flammable liquid and vapour.
H304	: May be fatal if swallowed and enters airways.
H312	: Harmful in contact with skin.
H315	: Causes skin irritation.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.

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H331	: Toxic if inhaled.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H340	: May cause genetic defects.
H350	: May cause cancer.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Carc.	: Carcinogenicity
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Muta.	: Germ cell mutagenicity
Skin Irrit.	: Skin irritation
STOT SE	: Specific target organ toxicity - single exposure
FI OEL	: Finland. HTP Values - Concentrations Known to be Harmful
FI OEL / HTP-arvot 8h	: Long term exposure limit

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

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SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Skin Sens. 1	H317
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

#### Classification procedure:

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

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