

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Anti Rust Wax  
Revision date : 19.08.2024  
Print date : 19.08.2024

Version (Revision) : 6.2.0 (6.1.2)

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

### 1.1 Product identifier

Anti Rust Wax

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

#### Relevant identified uses

PC 0.30 - Corrosion inhibitor

#### Sectors of use [SU]

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
Industrial uses

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

#### Supplier

Bio-Circle Surface Technology AG

Street : Aahusweg 16

Postal code/City : 6403 Küssnacht am Rigi

Telephone : 0041 41 878 1166

Telefax : 0041 41 878 1347

Information contact : [service@bio-circle.ch](mailto:service@bio-circle.ch)

### 1.4 Emergency telephone number

+41 (0)442515151

Schweizerisches Toxikologisches Informationszentrum, 145

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.

STOT SE 3 ; H336 - STOT-single exposure : Category 3 ; May cause drowsiness or dizziness.

Asp. Tox. 1 ; H304 - Aspiration hazard : Category 1 ; May be fatal if swallowed and enters airways.

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

##### Hazard pictograms



Flame (GHS02) · Health hazard (GHS08) · Exclamation mark (GHS07)

##### Signal word

Danger

##### Hazard components for labelling

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Hydrocarbons, C8-C9, isoalkanes ; CAS No. : 246538-71-6

Distillates (petroleum), hydrotreated light paraffinic ; CAS No. : 64742-55-8

##### Hazard statements

H226

Flammable liquid and vapour.

H304

May be fatal if swallowed and enters airways.

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H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P312 Call a POISON CENTER/doctor/... if you feel unwell.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/....  
P331 Do NOT induce vomiting.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

#### Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.

#### Special rules for supplemental label elements for certain mixtures

EUH208 Contains Sulfonic acids, petroleum, calcium salts, TBN < 300. May produce an allergic reaction.

### 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; REACH No. : 01-2119471843-32-XXXX ; EC No. : 927-241-2

Weight fraction :  $\geq 50 - < 75$  %

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H336 Aquatic Chronic 3 ; H412 EUH066

Hydrocarbons, C8-C9, isoalkanes ; REACH No. : 01-2119548395-31-XXXX ; EC No. : 932-020-9; CAS No. : 246538-71-6

Weight fraction :  $\geq 10 - < 20$  %

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411 EUH066

Distillates (petroleum), hydrotreated light paraffinic ; REACH No. : 01-2119487077-29-XXXX ; EC No. : 265-158-7; CAS No. : 64742-55-8

Weight fraction :  $\geq 5 - < 10$  %

Classification 1272/2008 [CLP] : Asp. Tox. 1 ; H304

Sulfonic acids, petroleum, calcium salts, TBN < 300 ; REACH No. : 01-2119488992-18-XXXX ; EC No. : 263-093-9; CAS No. : 61789-86-4

Weight fraction :  $\geq 1 - < 2$  %

Classification 1272/2008 [CLP] : Skin Sens. 1 ; H317

Specific Conc. Limits : Skin Sens. 1 ; H317: C  $\geq 10$  %

#### Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Remove contaminated, saturated clothing immediately. When in doubt or if symptoms are observed, get medical advice.

#### Following inhalation

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still. In case

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of respiratory tract irritation, consult a physician.

### In case of skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not wash with: Solvents/Thinner

### After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. P338 - Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately (poison centre).

### Following ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. 62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. May produce an allergic reaction.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam Carbon dioxide (CO<sub>2</sub>) Extinguishing powder Water spray jet

#### Unsuitable extinguishing media

Full water jet

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

#### Hazardous combustion products

Burning produces heavy smoke. In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still. In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO<sub>2</sub>) carbon black. Substance, organic.

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

Do not inhale explosion and combustion gases. In case of fire: Wear self-contained breathing apparatus.

### 5.4 Additional information

Cool down endangered containers with full water-jet. Use foam in high amounts. Contaminated tempering water is gathered separately and may not reach the sewage system.

## SECTION 6: Accidental release measures

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

P281 - Use personal protective equipment as required. Personal protection equipment: see section 8 Provide adequate ventilation. 23 - Do not breathe vapour. Special danger of slipping by leaking/spilling product. Clear spills immediately.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. P273 - Avoid release to the environment. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Disposal: see section 13

### 6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

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Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid: generation/formation of aerosols If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Wear personal protection equipment (refer to section 8). Keep away from sources of ignition - No smoking.

#### Protective measures

##### Measures to prevent fire

Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours can form explosive mixtures with air. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

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

#### Packaging materials

Only use containers specifically approved for the substance/product.

#### Requirements for storage rooms and vessels

Keep/Store only in original container. Keep container tightly closed in a cool, well-ventilated place.

#### Hints on joint storage

Do not store together with Oxidizing agent

### 7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### DNEL-/PNEC-values

##### DNEL/DMEL

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Limit value type : DNEL Consumer (systemic)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 185 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (systemic)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 46 mg/kg bw/day

Limit value type : DNEL Consumer (systemic)

Exposure route : Oral

Exposure frequency : Long-term

Limit value : 46 mg/kg bw/day

Limit value type : DNEL worker (systemic)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 871 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 77 mg/kg bw/day

Hydrocarbons, C8-C9, isoalkanes ; CAS No. : 246538-71-6

Limit value type : DNEL Consumer (systemic)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 608 mg/m<sup>3</sup>

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Limit value type : DNEL Consumer (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 699 mg/kg bw/day  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 699 mg/kg bw/day  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 2035 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 773 mg/kg bw/day

Distillates (petroleum), hydrotreated light paraffinic ; CAS No. : 64742-55-8  
Limit value type : DNEL Consumer (local)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 1,19 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 0,74 mg/kg bw/day  
Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 5,58 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 2,73 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 0,97 mg/kg bw/day

Sulfonic acids, petroleum, calcium salts, TBN < 300 ; CAS No. : 61789-86-4  
Limit value type : DNEL Consumer (local)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 0,513 mg/cm<sup>2</sup>  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 2,9 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 1,667 mg/kg bw/day  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 0,8333 mg/kg bw/day  
Limit value type : DNEL worker (local)  
Exposure route : Dermal

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Exposure frequency : Long-term  
Limit value : 1,03 mg/cm<sup>2</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 11,75 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 3,33 mg/kg bw/day

## PNEC

Distillates (petroleum), hydrotreated light paraffinic ; CAS No. : 64742-55-8  
Limit value type : PNEC (Secondary poisoning)  
Limit value : 9,33 mg/kg food  
Sulfonic acids, petroleum, calcium salts, TBN < 300 ; CAS No. : 61789-86-4  
Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 1 mg/l  
Limit value type : PNEC (Aquatic, intermittent release)  
Limit value : 10 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Limit value : 1 mg/l  
Limit value type : PNEC (Secondary poisoning)  
Limit value : 16,6 mg/kg food  
Limit value type : PNEC (Sewage treatment plant)  
Limit value : 1000 mg/l

## 8.2 Exposure controls

Operate if possible out of doors or in a well-ventilated place. Fresh air (open windows and doors) is necessary. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

### Personal protection equipment

#### Eye/face protection



Wear suitable safety goggles in case of splash.

#### Suitable eye protection

EN 166.

#### Skin protection

##### Hand protection



Wear protective gloves in case of longer lasting skin contact.

**Suitable gloves type** : EN 374.

**Suitable material** : NBR (Nitrile rubber)

**Breakthrough time** : 480 min.

**Thickness of the glove material** : 0.4 mm

**Remark** : The exact break through time has to be requested from the protective glove manufacturer and limits has to be ensured.

#### Respiratory protection

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Respiratory protection necessary at: exceeding exposure limit values

### Suitable respiratory protection apparatus

Combination filtering device  
Type : A

### Remark

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

### General information

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Do not put any product-impregnated cleaning rags into your trouser pockets.

### Environmental exposure controls

Do not allow to enter into surface water or drains. Safe handling: see section 7

### 8.3 Additional information

No tests have been performed. Selection made for preparations according to the best available knowledge and information on ingredients. In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state : Liquid

Colour : beige

#### Odour

Hydrocarbons, aliphatic.

#### Safety characteristics

Melting point/freezing point :	( 1013 hPa )		not determined	
Initial boiling point and boiling range :	( 1013 hPa )	>=	136 °C	
Flash point :		>	26 °C	DIN EN ISO 13736
Auto-ignition temperature :		>	200 °C	
Flammability :			flammable	
Lower explosion limit :			0,7 Vol-%	
Upper explosion limit :			7 Vol-%	
Vapour pressure :	( 20 °C )		8 hPa	
Density :	( 20 °C )	approx.	0,79 g/cm <sup>3</sup>	
Water solubility :	( 20 °C )		practically insoluble	
pH :	( 20 °C )		not applicable	
Solvent content :			80 Weight-%	
Relative vapour density :	( 20 °C )		not determined	
Maximum VOC content (EC) :			79,7 Weight-%	
Maximum VOC content (Switzerland) :			79,9 Weight-%	
Taxable VOC content (Switzerland) :			79,9 Weight-%	
VOC-value :			629,5 g/l	

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

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## 10.1 Reactivity

No information available.

## 10.2 Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

## 10.3 Possibility of hazardous reactions

Exothermic reaction with: Strong acid ; Strong alkali ; Oxidising agent, strong.  
In use, may form flammable/explosive vapour-air mixture.

## 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

## 10.5 Incompatible materials

No information available.

## 10.6 Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Acute oral toxicity

Parameter :	ATEmix
Exposure route :	Oral
Effective dose :	> 5000 mg/kg
Parameter :	LD50 ( Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics )
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg
Method :	OECD 401
Parameter :	LD50 ( Sulfonic acids, petroleum, calcium salts, TBN < 300 ; CAS No. : 61789-86-4 )
Exposure route :	Oral
Species :	Rat
Effective dose :	> 16000 mg/kg
Method :	OECD 401

##### Acute dermal toxicity

Parameter :	ATEmix
Exposure route :	Dermal
Effective dose :	> 3000 mg/kg
Parameter :	LD50 ( Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics )
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 5000 mg/kg
Method :	OECD 402
Parameter :	LD50 ( Sulfonic acids, petroleum, calcium salts, TBN < 300 ; CAS No. : 61789-86-4 )
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 4000 mg/kg

##### Acute inhalation toxicity

Parameter :	ATEmix
Exposure route :	Inhalation (vapour)
Effective dose :	> 20 mg/l
Parameter :	LC50 ( Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics )
Exposure route :	Inhalation
Species :	Rat
Effective dose :	> 4951 mg/l



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Exposure time : 4 h  
Method : OECD 403

## Corrosion

### Skin corrosion/irritation

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

### Serious eye damage/eye irritation

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

## Respiratory or skin sensitisation

### Skin sensitisation

Parameter : Skin sensitisation ( Sulfonic acids, petroleum, calcium salts, TBN < 300 ; CAS No. : 61789-86-4 )  
Species : Guinea pig  
Result : Other skin sensitiser (Subcategory 1B).  
Method : OECD 406

### Assessment/classification

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

### Sensitisation to the respiratory tract

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

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

### Carcinogenicity

No further relevant information available.

### Germ cell mutagenicity

No further relevant information available.

### Reproductive toxicity

No further relevant information available.

## STOT-single exposure

May cause drowsiness or dizziness.

## STOT-repeated exposure

No further relevant information available.

## Aspiration hazard

May be fatal if swallowed and enters airways.

## 11.2 Information on other hazards

### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

### Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

### Other adverse effects

None

### Additional information

Mixture not tested. The statement is derived from the properties of the single components.

## SECTION 12: Ecological information

Assessment/classification There are no data available on the preparation/mixture itself. Do not allow to enter into surface water or drains.

## 12.1 Toxicity

### Aquatic toxicity

#### Acute (short-term) fish toxicity

Parameter : LL50 ( Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics )

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Species : Oncorhynchus mykiss (Rainbow trout)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 10 - 30 mg/l  
Exposure time : 96 h  
Method : OECD 203  
Parameter : LC50 ( Hydrocarbons, C8-C9, isoalkanes ; CAS No. : 246538-71-6 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 0,11 mg/l  
Exposure time : 96 h  
Method : OECD 203  
Parameter : LL50 ( Distillates (petroleum), hydrotreated light paraffinic ; CAS No. : 64742-55-8 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : > 100 mg/l  
Exposure time : 96 h  
Method : OECD 203  
Parameter : LC50 ( Sulfonic acids, petroleum, calcium salts, TBN < 300 ; CAS No. : 61789-86-4 )  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : > 10000 mg/l  
Exposure time : 96 h

#### Chronic (long-term) fish toxicity

Parameter : NOELR ( Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : 0,182 mg/l  
Exposure time : 28 D

#### Acute (short-term) toxicity to crustacea

Parameter : EL50 ( Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 22 - 46 mg/l  
Exposure time : 48 h  
Method : OECD 202  
Parameter : EL50 ( Distillates (petroleum), hydrotreated light paraffinic ; CAS No. : 64742-55-8 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) toxicity to crustacea  
Effective dose : > 10000 mg/l  
Exposure time : 48 h  
Method : OECD 202  
Parameter : EC50 ( Sulfonic acids, petroleum, calcium salts, TBN < 300 ; CAS No. : 61789-86-4 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : > 1000 mg/l  
Exposure time : 48 h

#### Chronic (long-term) toxicity to aquatic invertebrate

Parameter : NOELR ( Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 0,317 mg/l  
Exposure time : 21 D

#### Acute (short-term) toxicity to algae and cyanobacteria

Parameter : EC50 ( Sulfonic acids, petroleum, calcium salts, TBN < 300 ; CAS No. : 61789-86-4 )  
Species : Scenedesmus subspicatus  
Evaluation parameter : Inhibition of biomass development  
Effective dose : > 100 mg/l

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Exposure time : 72 h

### Chronic (long-term) toxicity to aquatic algae and cyanobacteria

Parameter : NOELR ( Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Inhibition of growth rate  
Effective dose : < 1 mg/l  
Exposure time : 72 h  
Method : OECD 201

### Toxicity to microorganisms

Parameter : EL50 ( Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics )  
Species : Bacteria toxicity  
Effective dose : 1,065 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( Sulfonic acids, petroleum, calcium salts, TBN < 300 ; CAS No. : 61789-86-4 )  
Species : Bacteria toxicity  
Effective dose : > 10000 mg/l  
Method : OECD 209

## 12.2 Persistence and degradability

### Biodegradation

Parameter : BOD (% of ThOD) ( Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics )  
Inoculum : Degree of elimination  
Evaluation parameter : Aerobic  
Degradation rate : 89 %  
Test duration : 28 D  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301F  
Parameter : BOD (% of ThOD) ( Hydrocarbons, C8-C9, isoalkanes ; CAS No. : 246538-71-6 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate : 51,3 %  
Test duration : 28 D  
Evaluation : Not readily biodegradable (according to OECD criteria)  
Method : OECD 301F  
Parameter : BOD (% of ThOD) ( Hydrocarbons, C8-C9, isoalkanes ; CAS No. : 246538-71-6 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate : 64 %  
Test duration : 75 D  
Evaluation : Not readily biodegradable (according to OECD criteria) Moderately/partially biodegradable.  
Method : OECD 301F  
Parameter : BOD (% of ThOD) ( Distillates (petroleum), hydrotreated light paraffinic ; CAS No. : 64742-55-8 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate : 31 %  
Test duration : 28 D  
Evaluation : Not readily biodegradable (according to OECD criteria)  
Method : OECD 301F  
Parameter : BOD (% of ThOD) ( Sulfonic acids, petroleum, calcium salts, TBN < 300 ; CAS No. : 61789-86-4 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate : 8,6 %  
Test duration : 28 D

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Evaluation : Not readily biodegradable (according to OECD criteria)  
Method : OECD 301F

## 12.3 Bioaccumulative potential

No information available.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6 Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## 12.7 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Ordinance on the avoidance and disposal of waste (ADWO) SR 814.600.

##### Before intended use

##### Waste code according to the lists for the movement of waste

14 06 03S (Other solvents and solvent mixtures)

##### Other disposal recommendations

Dispose of waste according to applicable legislation. Dispose of contents/container to an appropriate recycling or disposal facility. Contaminated packages must be completely emptied and can be re-used following proper cleaning. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### 14.1 UN number

UN 3295

### 14.2 UN proper shipping name

Land transport (ADR/RID)  
HYDROCARBONS, LIQUID, N.O.S.

Sea transport (IMDG)  
HYDROCARBONS, LIQUID, N.O.S.

Air transport (ICAO-TI / IATA-DGR)  
HYDROCARBONS, LIQUID, N.O.S.

### 14.3 Transport hazard class(es)

#### Land transport (ADR/RID)

Class(es) : 3  
Classification code : F1  
Hazard identification number (Kemler No.) : 30  
Tunnel restriction code : D/E  
Special Provisions : LQ 51 · E 1  
Hazard label(s) :



3

#### Sea transport (IMDG)

Class(es) : 3

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EmS-No. : F-E / S-D  
Special Provisions : LQ 5 I · E 1  
Hazard label(s) :



3

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 3  
Special Provisions : E 1  
Hazard label(s) :



3

## 14.4 Packing group

III

## 14.5 Environmental hazards

Land transport (ADR/RID) : No

Sea transport (IMDG) : No

Air transport (ICAO-TI / IATA-DGR) : No

## 14.6 Special precautions for user

None

## 14.7 Maritime transport in bulk according to IMO instruments

not relevant

## SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Use restriction according to REACH annex XVII, no. : 3

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this preparation were not carried out.

## SECTION 16: Other information

### 16.1 Indication of changes

02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 03. Hazardous ingredients · 08. DNEL/DMEL · 08. PNEC · 09. Information on basic physical and chemical properties · 11. Toxicological information · 12. Ecological information · 14. UN proper shipping name

### 16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (Europäisches Übereinkommen über die Beförderung gefährlicher Güter auf der Straße)

AOX: adsorbierbare organisch gebundene Halogene

AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen

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CAS: Chemical Abstracts Service (Unterabteilung der American Chemical Society)  
CLP: Verordnung (EG) Nr. 1272/2008 über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen (Classification Labelling and Packaging)  
EAK / AVV: europäischer Abfallartenkatalog / Abfallverzeichnis-Verordnung  
ECHA: Europäische Chemikalienagentur (European Chemicals Agency)  
EINECS: : Altstoffverzeichnis (European Inventory of Existing Commercial Chemical Substances)  
GHS: Global harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien (Globally Harmonized System of Classification and Labelling of Chemicals)  
IATA: Internationale Luftverkehrs-Vereinigung (International Air Transport Association)  
ICAO: Internationale Zivilluftfahrtorganisation (International Civil Aviation Organization)  
IMDG: Gefahrgutkennzeichnung für gefährliche Güter im Seeschiffverkehr (International Maritime Code for Dangerous Goods)  
RID: Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr (Règlement concernant le transport international ferroviaire de marchandises dangereuses)  
TRGS: Technische Regel für den Umgang mit Gefahrstoffen  
VbF: Verordnung über brennbare Flüssigkeiten  
VOC: flüchtige organische Verbindung (volatile organic compound)  
VVEA: Verordnung über die Vermeidung und die Entsorgung von Abfällen  
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe  
WGK: Wassergefährdungsklasse

### 16.3 Key literature references and sources for data

DGUV: GESTIS-Stoffdatenbank  
ECHA: Classification And Labelling Inventory  
ECHA: Pre-registered Substances  
ECHA: Registered Substances  
EC\_Safety Data Sheet of Suppliers  
ESIS: European Chemical Substances Information System  
GDL: Gefahrstoffdatenbank der Länder  
UBA Rigoletto: Wassergefährdende Stoffe  
Regulation (EC) No. 1907/2006 of the European Parliament and of the Council  
|-> COMMISSION REGULATION (EU) 2020/878 of 18 June 2020  
Regulation (EC) No. 1272/2008 of the European Parliament and of the Council

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].  
Evaluation :  
Flam. Liq. 3 : Flash point (°C) EN ISO 13736  
STOT SE 3 : Calculation method.  
Asp. Tox. 1 : Calculation method.  
Aquatic Chronic 3 : Calculation method.

### 16.5 Relevant H- and EUH-phrases (Number and full text)

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

### 16.6 Training advice

None

### 16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily

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valid for the new made-up material.

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