

# Safety Data Sheet

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



Trade name : Anti-Rust Wax, Aerosol, 400 mL  
Revision date : 16.08.2024  
Print date : 16.08.2024

Version (Revision) : 7.0.0 (6.0.2)

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

### 1.1 Product identifier

Anti-Rust Wax, Aerosol, 400 mL  
Unique Formula Identifier : DUH0-D021-D009-G1AD

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

#### Relevant identified uses

PC 0.30 - Corrosion inhibitor

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

#### Supplier

Bio-Circle Surface Technology GmbH

**Street :** Berensweg 200

**Postal code/City :** 33334 Gütersloh

**Telephone :** +49 5241 9443 0

**Telefax :** +49 5241 9443 44

**Information contact :** labor@bio-circle.de

### 1.4 Emergency telephone number

+49 5241 9443 51 during normal office hours  
(Monday to Thursday from 8 am to 4 pm and Friday from 8 am to 3 pm)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Aerosol 1 ; H222 - Aerosols : Category 1 ; Extremely flammable aerosol.

Aerosol 1 ; H229 - Aerosols : Category 1 ; Pressurised container: May burst if heated.

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

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) · Exclamation mark (GHS07)

##### Signal word

Danger

##### Hazard components for labelling

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

BUTANE ; CAS No. : 106-97-8

PROPANE ; CAS No. : 74-98-6

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

##### Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H336 May cause drowsiness or dizziness.

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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.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P312 Call a POISON CENTER/doctor/... if you feel unwell.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P302+P352 IF ON SKIN: Wash with plenty of water/....  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P501 Dispose of contents/container to an appropriate recycling or disposal facility.

#### Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.

### 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 :  $\geq 25 - < 50$  %

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

BUTANE ; REACH No. : 01-2119474691-32-XXXX ; EC No. : 203-448-7 ; CAS No. : 106-97-8

Weight fraction :  $\geq 15 - < 30$  %

Classification 1272/2008 [CLP] : Flam. Gas 1 ; H220 Press. Gas (Liq.) ; H280

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

PROPANE ; REACH No. : 01-2119486944-21-XXXX ; EC No. : 200-827-9 ; CAS No. : 74-98-6

Weight fraction :  $\geq 5 - < 15$  %

Classification 1272/2008 [CLP] : Flam. Gas 1 ; H220 Press. Gas (Liq.) ; H280

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

Weight fraction :  $\geq 1 - < 5$  %

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 :  $\geq 0,5 - < 1$  %

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

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When in doubt or if symptoms are observed, get medical advice.

### Following inhalation

Consult a doctor immediately in the case of inhaling spray mist and show him packing or label. Remove casualty to fresh air and keep warm and at rest.

### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

### 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.

### Following ingestion

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

May produce an allergic reaction. May cause drowsiness or dizziness.

## 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>) Dry extinguishing powder ; Sand ; Powder

#### Unsuitable extinguishing media

Full water jet

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

P375 - Fight fire remotely due to the risk of explosion.

#### Hazardous combustion products

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. Use suitable breathing apparatus.

### 5.4 Additional information

Burning produces heavy smoke. Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Operate if possible out of doors or in a well-ventilated place. Special danger of slipping by leaking/spilling product. Clear spills immediately.

### 6.2 Environmental precautions

Do not allow to enter into soil/subsoil. P273 - Avoid release to the environment. Do not allow to enter into surface water or drains.

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

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### Other information

Replace leaky containers and dispose them as described in section 13.

### 6.4 Reference to other sections

Safe handling: see section 7

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Personal protection equipment: see section 8  
Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

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 only in the original container in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Avoid: Inhalation of vapours or spray/mists

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

#### Requirements for storage rooms and vessels

Ensure adequate ventilation of the storage area. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Store in a cool dry place.

#### Hints on joint storage

Storage class (TRGS 510) : 2B

### 7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

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

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 300 mg/m<sup>3</sup>

Peak limitation : 2(II)

Remark : AGS

Version : 08.07.2020

BUTANE ; CAS No. : 106-97-8

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 1000 ppm / 2400 mg/m<sup>3</sup>

Peak limitation : 4(II)

Version : 23.06.2022

PROPANE ; CAS No. : 74-98-6

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 1000 ppm / 1800 mg/m<sup>3</sup>

Peak limitation : 4(II)

Version : 23.06.2022

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

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 300 mg/m<sup>3</sup>

Peak limitation : 2(II)

Remark : AGS

Version :

Sulfonic acids, petroleum, calcium salts, TBN < 300 ; CAS No. : 61789-86-4

Limit value type (country of origin) : TRGS 900 ( D )

Parameter : A: respirable fraction

Limit value : 5 mg/m<sup>3</sup>

Peak limitation : 4(II)

Remark : DFG

Version : 08.07.2020

#### DNEL-/PNEC-values

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## 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>

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>

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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  
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

### Personal protection equipment Eye/face protection

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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** : CR (polychloroprene, chloroprene rubber) / NBR (Nitrile rubber)

**Breakthrough time** : 120 min. / 480 min.

**Thickness of the glove material** : 0.8 mm. /

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

## Respiratory protection



Respiratory protection necessary at: insufficient ventilation

### 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. Wash contaminated clothing prior to re-use.

### 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** : Aerosol

**Colour** : colourless

#### Odour

like: Hydrocarbons, aliphatic.

#### Safety characteristics

**Flammability** :

flammable

**Lower explosion limit** :

0,7 Vol-%

**Upper explosion limit** :

( PROPANE )

10,8 Vol-%

Literature value

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Vapour pressure :	( 50 °C )	<	1000	hPa
Density :	( 20 °C )		No data available	
Water solubility :	( 20 °C )		practically insoluble	
pH :	( 20 °C )		not applicable	
Relative vapour density :	( 20 °C )		not determined	
Maximum VOC content (EC) :			88,2	Weight-%
Maximum VOC content (Switzerland) :			88,4	Weight-%
Taxable VOC content (Switzerland) :			88,4	Weight-%

## 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is considered to be non-reactive under normal use conditions.

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to avoid

Avoid high temperatures or direct sunlight. Danger of bursting container.

### 10.5 Incompatible materials

No information available.

### 10.6 Hazardous decomposition products

No known hazardous decomposition products.  
Decomposition products in case of fire: see section 5.

## 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 : > 2000 mg/kg

##### Acute dermal toxicity

Parameter : ATEmix  
Exposure route : Dermal  
Effective dose : > 2000 mg/kg

##### Acute inhalation toxicity

Parameter : ATEmix  
Exposure route : Inhalation  
Effective dose : > 20 mg/l

#### Corrosion

##### Skin corrosion/irritation

No further relevant information available.

##### Serious eye damage/eye irritation

No further relevant information available.

#### Respiratory or skin sensitisation

##### Skin sensitisation

Parameter : Skin sensitisation ( Sulfonic acids, petroleum, calcium salts, TBN < 300 ; CAS No. :



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61789-86-4 )  
Species : Guinea pig  
Result : Other skin sensitiser (Subcategory 1B).  
Method : OECD 406

No further relevant information available.

#### Sensitisation to the respiratory tract

No further relevant information available.

### 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

No further relevant information available.

#### STOT-repeated exposure

No further relevant information available.

#### Aspiration hazard

No further relevant information available.

### 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

Frequently or prolonged contact with skin may cause dermal irritation.

#### Additional information

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

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

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

Parameter : LL50 ( Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics )  
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 ( BUTANE ; CAS No. : 106-97-8 )  
Species : Fish  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 27,98 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( BUTANE ; CAS No. : 106-97-8 )  
Species : Daphnia  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 14,22 mg/l  
Exposure time : 48 h

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Parameter : LC50 ( BUTANE ; CAS No. : 106-97-8 )  
Species : Acute (short-term) algae toxicity  
Effective dose : 8,57 mg/l  
Exposure time : 96 h

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 : LC50 ( PROPANE ; CAS No. : 74-98-6 )  
Species : Fish  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 27,98 mg/l  
Exposure time : 96 h

Parameter : LC50 ( PROPANE ; CAS No. : 74-98-6 )  
Species : Daphnia  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 14,22 mg/l  
Exposure time : 48 h

Parameter : EC50 ( PROPANE ; CAS No. : 74-98-6 )  
Species : Algae  
Effective dose : 7,71 mg/l  
Exposure time : 96 h

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

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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  
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

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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
Evaluation :	Not readily biodegradable (according to OECD criteria)
Method :	OECD 301F
Parameter :	Biodegradation ( PROPANE ; CAS No. : 74-98-6 )
Inoculum :	Degree of elimination
Evaluation parameter :	Anaerobic
Degradation rate :	100 %
Test duration :	385 h
Parameter :	Biodegradation ( BUTANE ; CAS No. : 106-97-8 )
Inoculum :	Biodegradation
Degradation rate :	100 %
Test duration :	386 h

## 12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

## 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

The waste codes are recommendations based on the schedule use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances.

### 13.1 Waste treatment methods

#### Directive 2008/98/EC (Waste Framework Directive)

##### Before intended use

##### Waste codes/waste designations according to EWC/AVV

16 05 04\* (Gases in pressure containers (including halons) containing hazardous substances)

### 13.2 Additional information

Dispose according to legislation.

## SECTION 14: Transport information

### 14.1 UN number

UN 1950

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**14.2 UN proper shipping name**

Land transport (ADR/RID)  
AEROSOLS  
Sea transport (IMDG)  
AEROSOLS  
Air transport (ICAO-TI / IATA-DGR)  
AEROSOLS, FLAMMABLE

**14.3 Transport hazard class(es)**

Land transport (ADR/RID)  
Class(es) : 2  
Classification code : 5F  
Hazard identification number (Kemler No.) : 23  
Tunnel restriction code : D  
Special Provisions : LQ 11 · E 0  
Hazard label(s) :



2.1

Sea transport (IMDG)  
Class(es) : 2.1  
EmS-No. : F-D / S-U  
Special Provisions : LQ 11 · E 0  
Hazard label(s) :



2.1

Air transport (ICAO-TI / IATA-DGR)  
Class(es) : 2.1  
Special Provisions : E 0  
Hazard label(s) :



2.1

**14.4 Packing group**

**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

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## Restrictions on use

Use restriction according to REACH annex XVII, no. : 3, 40, 75

## National regulations

AT: Labelling according to Austrian regulations (Chemikaliengesetz/ChemV).  
CH: Chemikalienverordnung (ChemV) and Chemikalien-Risikoreduktions-Verordnung (Chem RRV) are complied.

## Restrictions of occupation

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).  
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

## Water hazard class

Classification according to AwSV - Class : 2 (Obviously hazardous to water)

## Other regulations, restrictions and prohibition regulations

Aerosol Directive (75/324/)

## 15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### 16.1 Indication of changes

01. Unique Formula Identifier · 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. Occupational exposure limit values · 08. DNEL-/PNEC-values · 15. Water hazard class

### 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  
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

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|-> 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 :

Aerosols, Category 1 : Calculation method.

STOT SE 3 : Calculation method.

Aquatic Chronic 3 : Calculation method.

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

H220	Extremely flammable gas.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
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

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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 valid for the new made-up material.

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