

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**schülke** 

## **desderman® pure**      **No Change Service!**

Version  
03.01

Revision Date:  
16.01.2021

Date of last issue: 14.09.2020  
Date of first issue: 28.02.2018

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

### **1.1 Product identifier**

Trade name : desderman® pure  
Unique Formula Identifier (UFI) : ND40-000U-C002-KYJD

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

Use of the Sub-stance/Mixture : Disinfectants and general biocidal products

Recommended restrictions on use : Restricted to professional users.

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

Producer : Schülke & Mayr GmbH  
Robert-Koch-Str. 2  
  
22851 Norderstedt  
Germany  
Telephone: +49 (0)40/ 52100-0  
Telefax: +49 (0)40/ 52100318  
mail@schuelke.com  
www.schuelke.com

Supplier : Schülke & Mayr UK Ltd.  
Cygnet House  
1, Jenkin Road, Meadowhall  
  
Sheffield S9 1AT  
United Kingdom  
Telephone: +44 114 254 35 00  
Telefax: +44 114 254 35 01  
mail.uk@schulke.com

E-mail address of person responsible for the SDS/Contact person : Application Department  
+49 (0)40/ 521 00 666  
AD@schuelke.com  
(Schülke & Mayr UK Ltd.: +44-1142543500)

### **1.4 Emergency telephone number**

Emergency telephone number : UK Poisons Emergency number: 0870 600 6266  
Carechem 24 International: +44 1235 239670

## **SECTION 2: Hazards identification**

### **2.1 Classification of the substance or mixture**

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

Flammable liquids, Category 2

H225: Highly flammable liquid and vapour.

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Eye irritation, Category 2

H319: Causes serious eye irritation.

## 2.2 Label elements

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

Hazard pictograms :



Signal word : Danger

Hazard Statements : H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.

Precautionary Statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**Response:**  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**Storage:**  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

## 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.

Vapours are heavier than air and may spread along floors.

Take precautionary measures against static discharges.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Solution of the following substances with harmless additives.

#### Components

| Chemical name | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification                           | Concentration<br>(% w/w) |
|---------------|-------------------------------------------------------|------------------------------------------|--------------------------|
| ethanol       | 64-17-5<br>200-578-6<br>603-002-00-5                  | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319 | >= 70 - < 90             |

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|                      |                                                               |                                                                                                                                      |                 |
|----------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------|
|                      | 01-2119457610-43-XXXX                                         |                                                                                                                                      |                 |
| propan-2-ol          | 67-63-0<br>200-661-7<br>603-117-00-0<br>01-2119457558-25-XXXX | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336                                                                          | >= 10 - < 20    |
| 2-phenylphenol (ISO) | 90-43-7<br>201-993-5<br>604-020-00-6<br>01-2119511183-53-XXXX | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>Aquatic Acute 1;<br>H400; M = 1<br>Aquatic Chronic 1;<br>H410; M = 1 | >= 0.1 - < 0.25 |

For explanation of abbreviations see section 16.

## **SECTION 4: First aid measures**

### **4.1 Description of first aid measures**

- General advice : Take off all contaminated clothing immediately.
- If inhaled : Move to fresh air.  
If symptoms persist, call a physician.
- In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids.  
If eye irritation persists, consult a specialist.
- If swallowed : Do NOT induce vomiting.  
Clean mouth with water and drink afterwards plenty of water.  
If swallowed, seek medical advice immediately and show this container or label.

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

- Symptoms : Treat symptomatically.
- Risks : Causes serious eye irritation.

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

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

- Suitable extinguishing media : Dry powder  
Alcohol-resistant foam  
Water spray jet  
Carbon dioxide (CO<sub>2</sub>)

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Unsuitable extinguishing media : Do NOT use water jet.

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

Hazardous combustion products : No hazardous combustion products are known

**5.3 Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Cool closed containers exposed to fire with water spray.

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

Personal precautions : Ensure adequate ventilation.  
Remove all sources of ignition.

**6.2 Environmental precautions**

Environmental precautions : Avoid subsoil penetration.

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

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

**6.4 Reference to other sections**

see Section 8 + 13

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advice on safe handling : Do not spray on a naked flame or any incandescent material.  
Keep away from sources of ignition - No smoking. Keep away from children.

Advice on protection against fire and explosion : The hot product gives off combustible vapours. Take measures to prevent the build up of electrostatic charge.

Hygiene measures : Keep away from food and drink.

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

Requirements for storage areas and containers : Store at room temperature in the original container. Keep at temperature not exceeding 25 °C.

Further information on storage conditions : Keep away from direct sunlight. Keep container tightly closed.

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Advice on common storage : Do not store together with oxidising agents.

## 7.3 Specific end use(s)

Specific use(s) : none

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components                                                                                                                                    | CAS-No. | Value type (Form of exposure) | Control parameters                   | Basis   |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------|--------------------------------------|---------|
| ethanol                                                                                                                                       | 64-17-5 | TWA                           | 1,000 ppm<br>1,920 mg/m <sup>3</sup> | GB EH40 |
| Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used. |         |                               |                                      |         |
| propan-2-ol                                                                                                                                   | 67-63-0 | TWA                           | 400 ppm<br>999 mg/m <sup>3</sup>     | GB EH40 |
|                                                                                                                                               |         | STEL                          | 500 ppm<br>1,250 mg/m <sup>3</sup>   | GB EH40 |

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

| Substance name       | End Use | Exposure routes | Potential health effects   | Value                   |
|----------------------|---------|-----------------|----------------------------|-------------------------|
| ethanol              | Workers | Inhalation      | Acute local effects        | 1900 mg/m <sup>3</sup>  |
|                      | Workers | Skin contact    | Long-term systemic effects | 343 mg/kg               |
|                      | Workers | Inhalation      | Long-term systemic effects | 950 mg/m <sup>3</sup>   |
| propan-2-ol          | Workers | Skin contact    | Long-term systemic effects | 888 mg/kg               |
|                      | Workers | Inhalation      | Long-term systemic effects | 500 mg/m <sup>3</sup>   |
| 2-phenylphenol (ISO) | Workers | Inhalation      | Long-term systemic effects | 19.25 mg/m <sup>3</sup> |
|                      | Workers | Dermal          | Long-term systemic effects | 21.84 mg/kg             |

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

| Substance name | Environmental Compartment | Value      |
|----------------|---------------------------|------------|
| ethanol        | Fresh water               | 0.96 mg/l  |
|                | Marine water              | 0.79 mg/l  |
|                | Fresh water sediment      | 3.6 mg/kg  |
|                | Soil                      | 0.63 mg/kg |
|                | Marine sediment           | 2.9 mg/kg  |
|                | Sewage treatment plant    | 580 mg/l   |
| propan-2-ol    | Fresh water               | 140.9 mg/l |
|                | Marine water              | 140.9 mg/l |
|                | Fresh water sediment      | 552 mg/kg  |
|                | Marine sediment           | 552 mg/kg  |
|                | Soil                      | 28 mg/kg   |
|                | Intermittent use/release  | 140.9 mg/l |

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|                      |                                         |                |
|----------------------|-----------------------------------------|----------------|
|                      | Effects on waste water treatment plants | 2251 mg/l      |
|                      | Oral                                    | 160 mg/kg food |
| 2-phenylphenol (ISO) | Fresh water                             | 0.0009 mg/l    |
|                      | Marine water                            | 0.00009 mg/l   |
|                      | Intermittent use/release                | 0.027 mg/l     |
|                      | Sewage treatment plant                  | 0.56 mg/l      |
|                      | Fresh water sediment                    | 0.1284 mg/kg   |
|                      | Marine sediment                         | 0.01284 mg/kg  |
|                      | Soil                                    | 2.5 mg/kg      |

### 8.2 Exposure controls

#### **Personal protective equipment**

- Eye protection : If splashes are likely to occur, wear:  
Safety glasses with side-shields conforming to EN166
- Respiratory protection : No personal respiratory protective equipment normally required.
- Protective measures : Avoid contact with eyes.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Colour : colourless
- Odour : alcohol-like
- Odour Threshold : not determined
- pH : Not applicable
- Melting point/freezing point : < -5 °C
- Decomposition temperature : No data available
- Boiling point/boiling range : ca. 80 °C
- Flash point : 16 °C  
Method: DIN 51755 Part 1
- Evaporation rate : No data available
- Flammability (solid, gas) : Not applicable
- Upper explosion limit / Upper flammability limit : 15 %(V)  
Raw material
- Lower explosion limit / Lower flammability limit : 3.1 %(V)  
Raw material
- Vapour pressure : ca. 50 hPa (20 °C)

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|                                        |   |                                      |
|----------------------------------------|---|--------------------------------------|
| Vapour density                         | : | No data available                    |
| Relative density                       | : | ca. 0.83 g/cm <sup>3</sup> (20 °C)   |
| Solubility(ies)                        |   |                                      |
| Water solubility                       | : | completely soluble (20 °C)           |
| Partition coefficient: n-octanol/water | : | Not applicable                       |
| Flow time                              | : | < 15 s at 20 °C<br>Method: DIN 53211 |
| Explosive properties                   | : | No data available                    |
| Oxidizing properties                   | : | No data available                    |

### **9.2 Other information**

No data available

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

### **10.2 Chemical stability**

The product is chemically stable.

### **10.3 Possibility of hazardous reactions**

Hazardous reactions : Vapours may form explosive mixture with air.  
Reaction with oxidising agents  
Exothermic reaction with strong acids.

### **10.4 Conditions to avoid**

Conditions to avoid : Heat, flames and sparks.

### **10.5 Incompatible materials**

Materials to avoid : Strong acids and oxidizing agents

### **10.6 Hazardous decomposition products**

None reasonably foreseeable.

## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

#### **Acute toxicity**

Not classified based on available information.

#### **Components:**

##### **ethanol:**

Acute oral toxicity : LD<sub>50</sub> (Mouse): 8,300 mg/kg

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Acute inhalation toxicity : LC50 (Mouse): 39 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 20,000 mg/kg

### **propan-2-ol:**

Acute oral toxicity : LD50 (Rat): 5,840 mg/kg

Acute inhalation toxicity : LC50 (Rat): 39 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 13,900 mg/kg  
Method: OECD Test Guideline 402

### **2-phenylphenol (ISO):**

Acute oral toxicity : LD50 (Rat): 2,733 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Rat): > 0.036 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 402

### **Skin corrosion/irritation**

Not classified based on available information.

### **Components:**

#### **ethanol:**

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

#### **propan-2-ol:**

Result : No skin irritation

#### **2-phenylphenol (ISO):**

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

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**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Components:****ethanol:**

|        |   |                         |
|--------|---|-------------------------|
| Method | : | OECD Test Guideline 405 |
| Result | : | Eye irritation          |

**propan-2-ol:**

|        |   |                |
|--------|---|----------------|
| Result | : | Eye irritation |
|--------|---|----------------|

**2-phenylphenol (ISO):**

|         |   |                         |
|---------|---|-------------------------|
| Species | : | Rabbit                  |
| Method  | : | OECD Test Guideline 405 |
| Result  | : | Eye irritation          |

**Respiratory or skin sensitisation****Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Components:****ethanol:**

|           |   |                                                    |
|-----------|---|----------------------------------------------------|
| Test Type | : | Maximisation Test                                  |
| Species   | : | Guinea pig                                         |
| Method    | : | OECD Test Guideline 406                            |
| Result    | : | Did not cause sensitisation on laboratory animals. |

**propan-2-ol:**

|           |   |                                                    |
|-----------|---|----------------------------------------------------|
| Test Type | : | Buehler Test                                       |
| Species   | : | Guinea pig                                         |
| Result    | : | Did not cause sensitisation on laboratory animals. |

**2-phenylphenol (ISO):**

|           |   |                                                    |
|-----------|---|----------------------------------------------------|
| Test Type | : | Maximisation Test                                  |
| Species   | : | Guinea pig                                         |
| Method    | : | OECD Test Guideline 406                            |
| Result    | : | Did not cause sensitisation on laboratory animals. |

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****ethanol:**

|                       |   |                                                                                           |
|-----------------------|---|-------------------------------------------------------------------------------------------|
| Genotoxicity in vitro | : | Test Type: Microbial mutagenesis assay (Ames test)<br>Test system: Salmonella typhimurium |
|-----------------------|---|-------------------------------------------------------------------------------------------|

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Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: Not mutagenic in Ames Test

Genotoxicity in vivo : Result: Non mutagenic

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

### **propan-2-ol:**

Genotoxicity in vitro : Test Type: Ames test  
Method: Mutagenicity (Escherichia coli - reverse mutation assay)  
Result: Non mutagenic

Genotoxicity in vivo : Species: Mouse  
Method: Mutagenicity (micronucleus test)  
Result: Non mutagenic

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

### **2-phenylphenol (ISO):**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Rat (male)  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **ethanol:**

Carcinogenicity - Assessment : Did not show carcinogenic effects in animal experiments.

#### **propan-2-ol:**

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

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.

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**2-phenylphenol (ISO):**

Species : Rat, male  
 Application Route : Oral  
 Exposure time : 2 Years  
 Frequency of Treatment : täglich  
 NOAEL : 200

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Not classified based on available information.

**Components:****ethanol:**

Effects on foetal development : Species: Rat  
 Application Route: Oral  
 General Toxicity Maternal: NOAEL: 2,000 mg/kg body weight

Reproductive toxicity - Assessment : In animal testing, risk of impaired fertility was shown only after administration of very high doses of this substance.  
 Animal experiments showed mutagenic and teratogenic effects.

**propan-2-ol:**

Effects on foetal development : Species: Rat  
 Application Route: Oral  
 General Toxicity Maternal: NOAEL: 400 mg/kg body weight

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.  
 Ingestion of excessive amounts by pregnant animals resulted in maternal and foetal toxicity.

**2-phenylphenol (ISO):**

Effects on fertility : Species: Rat, male and female  
 Application Route: Oral  
 Duration of Single Treatment: 175 d  
 Fertility: NOAEL:  $\geq$  500 mg/kg body weight  
 Method: OECD Test Guideline 416  
 Result: Animal testing did not show any effects on fertility.  
 GLP: yes

Effects on foetal development : Species: Rat  
 Application Route: Oral  
 Duration of Single Treatment: 28 d  
 Developmental Toxicity: NOAEL: 250 mg/kg body weight  
 Method: OECD Test Guideline 414  
 Result: No effects on fertility and early embryonic development were detected.

Reproductive toxicity - Assessment : No data available  
 Animal testing did not show any effects on foetal develop-

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### **STOT - single exposure**

Not classified based on available information.

#### **Components:**

##### **ethanol:**

Remarks : No data available

##### **propan-2-ol:**

Assessment : May cause drowsiness or dizziness.

##### **2-phenylphenol (ISO):**

Target Organs : Respiratory system

Assessment : May cause respiratory irritation.

### **STOT - repeated exposure**

Not classified based on available information.

#### **Components:**

##### **ethanol:**

Remarks : No data available

##### **propan-2-ol:**

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

##### **2-phenylphenol (ISO):**

Remarks : No data available

### **Repeated dose toxicity**

#### **Components:**

##### **ethanol:**

Species : Rat  
NOAEL : 1,730 mg/kg  
LOAEL : 3,160 mg/kg  
Application Route : Oral  
Exposure time : 90 d

##### **propan-2-ol:**

Remarks : No data available

##### **2-phenylphenol (ISO):**

Species : Rat, male and female  
NOAEL :  $\geq 1,000$  mg/kg  
Application Route : Skin contact  
Exposure time : 21 d

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Number of exposures : 5 d/ week  
Method : OECD Test Guideline 410  
GLP : yes  
Remarks : Subacute toxicity

Species : Rat, male  
LOAEL : 200 mg/kg  
Application Route : Oral  
Exposure time : 2 year  
Method : OECD Test Guideline 453  
GLP : yes

Species : Rat, female  
LOAEL : 647 mg/kg  
Application Route : Oral  
Exposure time : 2 year  
Method : OECD Test Guideline 453  
GLP : yes

### **Aspiration toxicity**

Not classified based on available information.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### **Product:**

Toxicity to microorganisms : EC50 : 4,000 mg/l  
Method: OECD 209

#### **Components:**

##### **ethanol:**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 8,140 mg/l  
Exposure time: 48 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 5,000 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : IC50 (Scenedesmus quadricauda (Green algae)): > 100 mg/l  
plants Exposure time: 72 h

##### **propan-2-ol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 10,000 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
plants Exposure time: 72 h  
Test Type: static test

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EC50 (green algae): 1,800 mg/l  
Exposure time: 7 d

### **2-phenylphenol (ISO):**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 4.5 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna): 2.7 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): 3.57  
plants mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.468  
mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic tox- : 1  
icity)

Toxicity to fish (Chronic tox- : NOEC: 0.036 mg/l  
icity) Exposure time: 21 d  
Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other : NOEC: 0.009 mg/l  
aquatic invertebrates (Chron- Exposure time: 21 d  
ic toxicity) Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic : 1  
toxicity)

## **12.2 Persistence and degradability**

### **Product:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD 301D / EEC 84/449 C6

### **Components:**

#### **ethanol:**

Biodegradability : Test Type: aerobic  
Result: Readily biodegradable.  
Biodegradation: > 70 %  
Exposure time: 5 d  
Method: OECD 301D / EEC 84/449 C6

#### **propan-2-ol:**

Biodegradability : Result: Readily biodegradable.

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Biodegradability : Result: Readily biodegradable.  
Biodegradation: > 70 %  
Exposure time: 28 d  
Method: OECD 301B/ ISO 9439/ EEC 84/449 C5

**12.3 Bioaccumulative potential****Components:****ethanol:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -0.14  
Method: Calculated value

**propan-2-ol:**

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water : log Pow: 0.05 (20 °C)  
Method: OECD Test Guideline 107

**2-phenylphenol (ISO):**

Bioaccumulation : Bioconcentration factor (BCF): 22  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 3.18  
Method: OECD Test Guideline 107

**12.4 Mobility in soil****Components:****ethanol:**

Mobility : Remarks: No data available

**propan-2-ol:**

Mobility : Remarks: Mobile in soils

**2-phenylphenol (ISO):**

Mobility : Remarks: No data available

Distribution among environmental compartments : log Koc: 2.4 - 2.6

**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

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very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Other adverse effects

#### **Product:**

Additional ecological information : No data is available on the product itself.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of the product according to the defined EWC (European Waste Code) No.

Contaminated packaging : Take empty packaging to the recycling plant.

Waste key for the unused product : EWC 070604\*

Waste key for the unused product(Group) : Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products.

---

## SECTION 14: Transport information

### 14.1 UN number

ADR : UN 1987

IMDG : UN 1987

IATA : UN 1987

### 14.2 UN proper shipping name

ADR : ALCOHOLS, N.O.S.  
(ethanol, propan-2-ol)

IMDG : ALCOHOLS, N.O.S.  
(ethanol, propan-2-ol)

IATA : Alcohols, n.o.s.  
(ethanol, propan-2-ol)

### 14.3 Transport hazard class(es)

ADR : 3

IMDG : 3

IATA : 3

### 14.4 Packing group

ADR

Packing group : II

Classification Code : F1

Hazard Identification Number : 33

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Labels : 3  
Tunnel restriction code : (D/E)

### **IMDG**

Packing group : II  
Labels : 3  
EmS Code : F-E, S-D

### **IATA (Cargo)**

Packing instruction (cargo aircraft) : 364  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable liquid

### **IATA (Passenger)**

Packing instruction (passenger aircraft) : 353  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable liquid

## **14.5 Environmental hazards**

### **ADR**

Environmentally hazardous : no

### **IMDG**

Marine pollutant : no

## **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.  
For personal protection see section 8.

## **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 - 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

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 pollu- : Not applicable

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tants (recast)

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

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

P5c FLAMMABLE LIQUIDS

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 83.52 %

### **Other regulations:**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values.

Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products

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  | : On the inventory, or in compliance with the inventory                                                                                         |
| TSCA  | : Product contains substance(s) not listed on TSCA inventory.                                                                                   |
| AICS  | : On the inventory, or in compliance with the inventory                                                                                         |
| DSL   | : This product contains the following components that are not on the Canadian DSL nor NDSL.<br><br>Hexanoic acid, 2-ethyl-, C16-18-alkyl esters |
| 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**

Exempt

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|      |                                                         |
|------|---------------------------------------------------------|
| H225 | : Highly flammable liquid and vapour.                   |
| H315 | : Causes skin irritation.                               |
| H319 | : Causes serious eye irritation.                        |
| H335 | : May cause respiratory irritation.                     |
| H336 | : May cause drowsiness or dizziness.                    |
| H400 | : Very toxic to aquatic life.                           |
| H410 | : Very toxic to aquatic life with long lasting effects. |

**Full text of other abbreviations**

|                 |                                                          |
|-----------------|----------------------------------------------------------|
| Aquatic Acute   | : Short-term (acute) aquatic hazard                      |
| Aquatic Chronic | : Long-term (chronic) aquatic hazard                     |
| Eye Irrit.      | : Eye irritation                                         |
| Flam. Liq.      | : Flammable liquids                                      |
| Skin Irrit.     | : Skin irritation                                        |
| STOT SE         | : Specific target organ toxicity - single exposure       |
| GB EH40         | : UK. EH40 WEL - Workplace Exposure Limits               |
| GB EH40 / TWA   | : Long-term exposure limit (8-hour TWA reference period) |
| GB EH40 / STEL  | : Short-term exposure limit (15-minute reference period) |

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; AICS - Australian Inventory of Chemical Substances; 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 Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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### **Further information**

#### **Classification of the mixture:**

Flam. Liq. 2

H225

Eye Irrit. 2

H319

#### **Classification procedure:**

Based on product data or assessment

Calculation method

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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