

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended
by UK REACH Regulations SI 2019/758



desderman® pure *No Change Service!*

Version
03.05

Revision Date:
25.11.2023

Date of last issue: 24.09.2022

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

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 Specialists
+49 (0)40/ 521 00 666
AD@schuelke.com

1.4 Emergency telephone number

Emergency telephone number : Carechem 24 International:+44 1235 239670

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Flammable liquids, Category 2

H225: Highly flammable liquid and vapour.

Eye irritation, Category 2

H319: Causes serious eye irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

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.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

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

Hazardous components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|----------------------|---|--|--------------------------|
| ethanol | 64-17-5 200-578-6 603-002-00-5 01-2119457610-43-XXXX | Flam. Liq. 2; H225 Eye Irrit. 2; H319 | >= 70 - < 90 |
| propan-2-ol | 67-63-0 200-661-7 603-117-00-0 01-2119457558-25-XXXX | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) | >= 10 - < 20 |
| isopropyl myristate | 110-27-0 203-751-4 --- --- | Aquatic Chronic 4; H413 | >= 1 - < 2.5 |
| 2-phenylphenol (ISO) | 90-43-7 201-993-5 604-020-00-6 01-2119511183-53-XXXX | Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 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.

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- 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 (CO₂)
- Unsuitable extinguishing
media : Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-
fighting : Cool closed containers exposed to fire with water spray.
Vapours are heavier than air and may spread along floors.
- Hazardous combustion prod-
ucts : 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.
-

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.
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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

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.

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 1,920 mg/m ³ | GB EH40 |
| propan-2-ol | 67-63-0 | TWA | 400 ppm 999 mg/m ³ | GB EH40 |
| | | STEL | 500 ppm 1,250 mg/m ³ | GB EH40 |

Derived No Effect Level (DNEL):

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| Substance name | End Use | Exposure routes | Potential health effects | Value |
|----------------------|---------|-----------------|----------------------------|-------------------------|
| ethanol | Workers | Inhalation | Acute local effects | 1900 mg/m ³ |
| | Workers | Skin contact | Long-term systemic effects | 343 mg/kg |
| propan-2-ol | Workers | Inhalation | Long-term systemic effects | 950 mg/m ³ |
| | Workers | Skin contact | Long-term systemic effects | 888 mg/kg |
| isopropyl myristate | Workers | Inhalation | Long-term systemic effects | 500 mg/m ³ |
| | Workers | Dermal | Long-term systemic effects | 33 mg/kg bw/day |
| 2-phenylphenol (ISO) | Workers | Inhalation | Long-term systemic effects | 23.5 mg/m ³ |
| | Workers | Dermal | Long-term systemic effects | 19.25 mg/m ³ |
| | Workers | Dermal | Long-term systemic effects | 21.84 mg/kg |

Predicted No Effect Concentration (PNEC):

| 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 |
| 2-phenylphenol (ISO) | Effects on waste water treatment plants | 2251 mg/l |
| | Oral | 160 mg/kg food |
| | 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/face 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.

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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 |
| 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) |
| Relative vapour density | : | No data available |
| Density | : | ca. 0.83 g/cm ³ (20 °C) |
| Solubility(ies) Water solubility | : | completely soluble (20 °C) |
| Partition coefficient: n-octanol/water | : | Not applicable |
| Auto-ignition temperature | : | > 360 °C Raw material |
| Viscosity Viscosity, dynamic | : | not determined |
| Viscosity, kinematic | : | not determined |
| Flow time | : | < 15 s at 20 °C Method: DIN 53211 |

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- Explosive properties : Vapours may form explosive mixtures with air.
- Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

- Flammability (liquids) : Highly flammable liquid and vapour.
- Metal corrosion rate : None reasonably foreseeable.
-

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 : LD50 (Mouse): 8,300 mg/kg
- Acute inhalation toxicity : LC50 (Mouse): 39 mg/l
Exposure time: 4 h
Test atmosphere: vapour
- Acute dermal toxicity : LD50 (Rabbit): 20,000 mg/kg
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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

isopropyl myristate:

Acute oral toxicity : LD50: > 2,000 mg/kg

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

Serious eye damage/eye irritation

Causes serious eye irritation.

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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)
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471

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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.

2-phenylphenol (ISO):

Species : Rat, male
Application Route : Oral

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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 : 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.

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 : Animal testing did not show any effects on foetal development.

STOT - single exposure

Not classified based on available information.

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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 : >= 1,000 mg/kg
||Application Route : Skin contact
||Exposure time : 21 d
||Number of exposures : 5 d/ week
||Method : OECD Test Guideline 410
||GLP : yes
||Remarks : Subacute toxicity

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

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

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : No human information is available.

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 aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 5,000 mg/l
Exposure time: 48 h
Toxicity to algae/aquatic plants : IC50 (Scenedesmus quadricauda (Green algae)): > 100 mg/l
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 aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 10,000 mg/l
Exposure time: 48 h
Toxicity to algae/aquatic : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

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plants

Exposure time: 72 h
Test Type: static test

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 aquatic invertebrates : EC50 (Daphnia magna): 2.7 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 3.57 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 toxicity) : 1

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

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

M-Factor (Chronic aquatic toxicity) : 1

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

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propan-2-ol:

Biodegradability : Result: Readily biodegradable.

isopropyl myristate:

Biodegradability : Biodegradation: > 90 %
Method: OECD Test Guideline 301B

2-phenylphenol (ISO):

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

isopropyl myristate:

Partition coefficient: n-octanol/water : log Pow: > 7

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:

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

12.6 Other adverse effects

Product:

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

ADR : UN 1987

IMDG : UN 1987

IATA : UN 1987

14.2 UN proper shipping name

ADR : ALCOHOLS, N.O.S.

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(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)

| | Class | Subsidiary risks |
|-------------|-------|------------------|
| ADR | : 3 | |
| IMDG | : 3 | |
| IATA | : 3 | |

14.4 Packing group

ADR
Packing group : II
Classification Code : F1
Hazard Identification Number : 33
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.

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

Not applicable for product as supplied.

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SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

| | | |
|---|---|---|
| UK REACH List of restrictions (Annex 17) | : | Conditions of restriction for the following entries should be considered: Number on list 3 |
| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation | : | Not applicable |
| The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) | : | Not applicable |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer | : | Not applicable |
| UK REACH List of substances subject to authorisation (Annex XIV) | : | Not applicable |
| 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 The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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. |
| AIC | : | 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. Hexanoic acid, 2-ethyl-, C16-18-alkyl esters |
| ENCS | : | Not in compliance with the inventory |
| ISHL | : | Not in compliance with the inventory |

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| | | |
|-------|---|--------------------------------------|
| KECI | : | Not in compliance with the inventory |
| PICCS | : | Not in compliance with the inventory |
| IECSC | : | Not in compliance with the inventory |
| NZIoC | : | Not in compliance with the inventory |
| TECI | : | Not in compliance with the inventory |

15.2 Chemical safety assessment

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

SECTION 16: Other information **Full text of H-Statements**

| | | |
|------|---|---|
| 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. |
| H413 | : | May cause long lasting harmful effects to aquatic life. |

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 - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of

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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; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

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.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.