

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**schülke** -

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

Version  
02.05

Revision Date:  
21.05.2019

Date of last issue: 14.11.2018  
Date of first issue: 07.07.2008

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

#### **1.1 Product identifier**

Trade name : desderman® pure

#### **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**

Manufacturer/ Supplier : 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

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 num-  
ber : UK Poisons Emergency number: 0870 600 6266

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### **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.

Eye irritation, Category 2                      H319: Causes serious eye irritation.

#### **2.2 Label elements**

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

Hazard pictograms :



Signal word : Danger

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**desderman® pure No Change Service!**

Version 02.05      Revision Date: 21.05.2019      Date of last issue: 14.11.2018  
 Date of first issue: 07.07.2008

- Hazard statements : H225 Highly flammable liquid and vapour.  
 H319 Causes serious eye irritation.
- Precautionary statements : P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
 P501 Dispose of contents/ container to an approved waste disposal plant.
- Further information : Use biocides safely. Always read the label and product information before use.

**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 discharge.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

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

**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	78,2
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	10
Biphenyl-2-ol	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 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	0,1

For explanation of abbreviations see section 16.

**desderman® pure**    **No Change Service!**Version  
02.05Revision Date:  
21.05.2019Date of last issue: 14.11.2018  
Date of first issue: 07.07.2008

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**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.

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

- Treatment : For specialist advice physicians should contact the Poisons Information Service.
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**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>)
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.  
Foam

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

- Specific hazards during fire-fighting : Cool closed containers exposed to fire with water spray.
- Hazardous combustion products : Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)

**5.3 Advice for firefighters**

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
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**desderman® pure**    **No Change Service!**Version  
02.05Revision Date:  
21.05.2019Date of last issue: 14.11.2018  
Date of first issue: 07.07.2008

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Further information                   : Vapours may form explosive mixtures with air.  
Vapours are heavier than air and may spread along floors.

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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     : The hot product gives off combustible vapours. Take  
fire and explosion               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         : Store at room temperature in the original container. Keep at  
areas and containers             temperature not exceeding 25 °C.

Further information on stor-     : Keep away from direct sunlight. Keep container tightly closed.  
age conditions

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

**7.3 Specific end use(s)**

Specific use(s)                    : none

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**desderman® pure No Change Service!**Version  
02.05Revision Date:  
21.05.2019

Date of last issue: 14.11.2018

Date of first issue: 07.07.2008

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****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 effects, Local effects	1900 mg/m <sup>3</sup>
	Workers	Skin contact	Chronic effects	343 mg/kg
	Workers	Inhalation	Chronic 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>
Biphenyl-2-ol	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
	Propan-2-ol	Fresh water
Propan-2-ol	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
	Effects on waste water treatment plants	2251 mg/l
	Oral	160 mg/kg food
	Biphenyl-2-ol	Fresh water
Biphenyl-2-ol	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

Protective measures : Avoid contact with eyes.

**desderman® pure**    **No Change Service!**Version  
02.05Revision Date:  
21.05.2019

Date of last issue: 14.11.2018

Date of first issue: 07.07.2008

**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	:	approx. 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	:	approx. 50 hPa (20 °C)
Vapour density	:	No data available
Relative density	:	approx. 0,83 g/cm <sup>3</sup> (20 °C)
Solubility(ies) Water solubility	:	in all proportions (20 °C)
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	> 360 °C Raw material
Flow time	:	< 15 s at 20 °C Method: DIN 53211
Explosive properties	:	No data available
Oxidizing properties	:	No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**schülke** -t

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

Version  
02.05

Revision Date:  
21.05.2019

Date of last issue: 14.11.2018  
Date of first issue: 07.07.2008

---

### 9.2 Other information

No data available

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## 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.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 5.000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 40 mg/l

Acute dermal toxicity : Acute toxicity estimate: > 15.000 mg/kg

##### Components:

##### **Ethanol:**

Acute oral toxicity : LD50 (Mouse): 8.300 mg/kg

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

Acute dermal toxicity : LD50 (Rabbit): 20.000 mg/kg

##### **Propan-2-ol:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**schülke** -t

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

Version  
02.05

Revision Date:  
21.05.2019

Date of last issue: 14.11.2018  
Date of first issue: 07.07.2008

---

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

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

### **Biphenyl-2-ol:**

Acute oral toxicity : LD50 (Rat): 2.733 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Rat): > 36 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 402

### **Skin corrosion/irritation**

#### **Product:**

Result : No skin irritation

#### **Components:**

##### **Ethanol:**

Species : Rabbit  
Result : No skin irritation

##### **Propan-2-ol:**

Result : No skin irritation

##### **Biphenyl-2-ol:**

Species : Rabbit  
Assessment : Causes skin irritation.

### **Serious eye damage/eye irritation**

#### **Product:**

Assessment : Causes serious eye irritation.  
Method : Calculation method

#### **Components:**

##### **Ethanol:**

Species : Rabbit  
Assessment : Causes serious eye irritation.  
Method : OECD Test Guideline 405



**desderman® pure No Change Service!**

Version 02.05      Revision Date: 21.05.2019      Date of last issue: 14.11.2018  
Date of first issue: 07.07.2008

---

**Propan-2-ol:**

Result : Causes serious eye irritation.

**Biphenyl-2-ol:**

Species : Rabbit  
Assessment : Causes serious eye irritation.

**Respiratory or skin sensitisation****Components:****Ethanol:**

Test Type : Maximisation Test  
Species : Guinea pig  
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.

**Biphenyl-2-ol:**

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

**Germ cell mutagenicity****Components:****Ethanol:**

Genotoxicity in vitro : Method: OECD Test Guideline 471  
Result: Not mutagenic in Ames Test

Genotoxicity in vivo : Remarks: 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)  
Remarks: Non mutagenic

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

**desderman® pure** *No Change Service!*Version  
02.05Revision Date:  
21.05.2019Date of last issue: 14.11.2018  
Date of first issue: 07.07.2008

essment

**Biphenyl-2-ol:**

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

**Carcinogenicity****Components:****Ethanol:**

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

**Propan-2-ol:**

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

**Biphenyl-2-ol:**Species : Rat, male  
Application Route : Oral  
Exposure time : 2 Years  
NOAEL : 200

Carcinogenicity - Assessment : No data available

**Reproductive toxicity****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.

**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.

**Biphenyl-2-ol:**Effects on fertility : Species: Rat, male and female  
Application Route: Oral

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**schülke** -†

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

Version  
02.05

Revision Date:  
21.05.2019

Date of last issue: 14.11.2018  
Date of first issue: 07.07.2008

---

General Toxicity - Parent: NOAEL: 460 mg/kg body weight  
General Toxicity F1: NOAEL: 460 mg/kg body weight

Reproductive toxicity - Assessment : No data available

### **STOT - single exposure**

#### **Components:**

##### **Ethanol:**

Remarks : No data available

##### **Propan-2-ol:**

Assessment : May cause drowsiness or dizziness.

##### **Biphenyl-2-ol:**

Target Organs : Respiratory system  
Assessment : May cause respiratory irritation.

### **STOT - repeated exposure**

#### **Components:**

##### **Ethanol:**

Remarks : No data available

##### **Propan-2-ol:**

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

##### **Biphenyl-2-ol:**

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

##### **Biphenyl-2-ol:**

Species : Rat, male  
NOAEL : <= 1.000 mg/kg  
Application Route : Skin contact  
Exposure time : 21 d

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

Version 02.05      Revision Date: 21.05.2019      Date of last issue: 14.11.2018  
 Date of first issue: 07.07.2008

Species : Rat, male  
 LOAEL : 200 mg/kg  
 Application Route : Oral  
 Exposure time : 2 year

**Aspiration toxicity**

No data 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 : IC50 (Scenedesmus quadricauda (Green algae)): > 100 mg/l  
 Exposure time: 72 h

**Propan-2-ol:**

Toxicity to fish : LC50 (Leuciscus idus): > 100 mg/l  
 Exposure time: 48 h  
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): > 100 mg/l  
 Exposure time: 48 h  
 Test Type: static test

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

**Biphenyl-2-ol:**

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 : EC50 (Desmodesmus subspicatus (green algae)): 0,98 mg/l  
 Exposure time: 72 h

**desderman® pure No Change Service!**

Version 02.05      Revision Date: 21.05.2019      Date of last issue: 14.11.2018  
 Date of first issue: 07.07.2008

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 : Result: Readily biodegradable.

**Propan-2-ol:**

Biodegradability : Result: Readily biodegradable.

**Biphenyl-2-ol:**

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

**desderman® pure**    *No Change Service!*Version  
02.05Revision Date:  
21.05.2019Date of last issue: 14.11.2018  
Date of first issue: 07.07.2008

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**Biphenyl-2-ol:**Bioaccumulation : Bioconcentration factor (BCF): 22  
Remarks: Bioaccumulation is unlikely.Partition coefficient: n-  
octanol/water : log Pow: 3,18**12.4 Mobility in soil****Components:****Ethanol:**

Mobility : Remarks: No data available

**Propan-2-ol:**

Mobility : Remarks: Mobile in soils

**Biphenyl-2-ol:**

Mobility : Remarks: No data available

**12.5 Results of PBT and vPvB assessment****Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

**12.6 Other adverse effects****Product:**Additional ecological infor-  
mation : none

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods**Product : Dispose of the product according to the defined EWC (Euro-  
pean Waste Code) No.

Contaminated packaging : Take empty packaging to the recycling plant.

Waste key for the unused  
product : EWC 070604Waste key for the unused  
product(Group) : Waste material of HZVA from fats, lubricants, soaps, deter-  
gents, disinfectants and personal protection products.

**desderman® pure No Change Service!**Version  
02.05Revision Date:  
21.05.2019Date of last issue: 14.11.2018  
Date of first issue: 07.07.2008**SECTION 14: Transport information****14.1 UN number**

IMDG : UN 1987  
IATA (Cargo) : UN 1987

**14.2 UN proper shipping name**

IMDG : ALCOHOLS, N.O.S.  
(Ethanol, Propan-2-ol)  
IATA (Cargo) : ALCOHOLS, N.O.S.  
(Ethanol, Propan-2-ol)

**14.3 Transport hazard class(es)**

IMDG : 3  
IATA (Cargo) : 3

**14.4 Packing group**

IMDG  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-D  
IATA (Cargo)  
Packing instruction (cargo aircraft) : 364  
Packing group : II  
Labels : Flammable liquid

**14.5 Environmental hazards**

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 - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable  
Regulation (EC) No 850/2004 on persistent organic pol- : Not applicable

**desderman® pure No Change Service!**

Version	Revision Date:	Date of last issue: 14.11.2018
02.05	21.05.2019	Date of first issue: 07.07.2008

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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 : Volatile organic compounds (VOC) content: 88,2 %  
Directive 2010/75/EC on the limitation of emissions of volatile organic compounds

**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

**15.2 Chemical safety assessment**

Exempt

**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.

**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

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 - In-



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

Version  
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Revision Date:  
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ternational Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008

Flam. Liq. 2, H225                                   : On basis of test data.  
Eye Irrit. 2, H319                                   : Calculation method

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

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