

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

Version 01.06

Revision Date 17.01.2014

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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- : Disinfectants and general biocidal products  
stance/MixtureRecommended restrictions : Restricted to professional users.  
on use**1.3 Details of the supplier of the safety data sheet**Producer/Supplier : Schülke & Mayr GmbH  
Robert-Koch-Str. 2  
22851 Norderstedt  
Germany  
Telephone: +4940521000  
Telefax: +494052100318  
mail@schuelke.com  
www.schuelke.comContact person : Application Department HI  
+49 (0)40/ 521 00 544  
pab@schuelke.com  
(Schülke & Mayr UK Ltd.: +44-1142543500)**1.4 Emergency telephone number**Emergency telephone num- : UK Poisons Emergency number: 0870 600 6266  
berEmergency telephone num- : +49 (0)40 / 52 100 -0  
ber**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (67/548/EEC, 1999/45/EC)**

Highly flammable

R11: Highly flammable.

**2.2 Label elements****Labelling according to EC Directives (1999/45/EC):**

Hazard symbols :

Highly flam-  
mable

R-phrase(s) :

: R11

Highly flammable.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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- S-phrases(s) : S 7/9 Keep container tightly closed and in a well-ventilated place.  
S16 Keep away from sources of ignition - No smoking.  
S35 This material and its container must be disposed of in a safe way.
- Further information : In the EU, this product falls under the Directive on biocide products 98/8/EC.
- Further information : Use biocides safely. Always read the label and product information before use.

## 2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). 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.

#### Hazardous components

Chemical Name	Index-Number CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Ethanol	603-002-00-5 64-17-5 200-578-6 01- 2119457610- 43-XXXX	F; R11	Flam. Liq. 2; H225 Eye Irrit. 2; H319	78,2 %
Propan-2-ol	603-117-00-0 67-63-0 200-661-7 01- 2119457558- 25-XXXX	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	10 %
Biphenyl-2-ol	604-020-00-6 90-43-7 201-993-5	Xi; R36/37/38 N; R50	Eye Irrit. 2; H319 Skin Irrit. 2; H315 STOT SE 3; H335 Aquatic Acute 1; H400	0,1 %

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

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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.

**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 : High volume water jet

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

- Specific hazards during fire-fighting : Vapours are heavier than air and may spread along floors.  
Cool closed containers exposed to fire with water spray.
- Specific risk from the substance or the product itself, its combustion products or evolved gases : Vapours may form explosive mixtures with air.

**5.3 Advice for firefighters**

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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

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

**6.2 Environmental precautions**

Environmental precautions : Avoid subsoil penetration.

**6.3 Methods and materials 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 chapter 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 : Keep away from food and drink.  
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**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Ethanol	64-17-5	Permissible exposure limit	500 ppm 960 mg/m <sup>3</sup>	TRGS 900
Ethanol	64-17-5	Ceiling Limit Value	1.000 ppm	TRGS 900

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			1.920 mg/m <sup>3</sup>	
Ethanol	64-17-5	Permissible exposure limit	1.000 ppm 1.900 mg/m <sup>3</sup>	OSHA
Propan-2-ol	67-63-0	Permissible exposure limit	200 ppm 500 mg/m <sup>3</sup>	TRGS 900
Propan-2-ol	67-63-0	Ceiling Limit Value	400 ppm 1.000 mg/m <sup>3</sup>	TRGS 900
Propan-2-ol	67-63-0	Permissible exposure limit	400 ppm 980 mg/m <sup>3</sup>	OSHA

## Derived No Effect Level (DNEL)

Propan-2-ol : End Use: Workers, Exposure routes: Skin contact, Potential health effects: Chronic effects, Value: 888 mg/m<sup>3</sup>

End Use: Workers, Exposure routes: Inhalation, Potential health effects: Chronic effects, Value: 500 mg/m<sup>3</sup>

## Predicted No Effect Concentration (PNEC)

Propan-2-ol : Fresh water, Value: 140,9 mg/l

Marine water, Value: 140,9 mg/l

Fresh water sediment, Value: 552 mg/kg

Marine sediment, Value: 552 mg/kg

Soil, Value: 28 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.

### Environmental exposure controls

General advice : Avoid subsoil penetration.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid  
Colour : colourless  
Odour : alcohol-like  
Flash point : 16 °C, DIN 51755 Part 1  
Ignition temperature : Ethanol: > 360 °C  
Propan-2-ol: 425 °C  
Auto-ignition temperature : no data available  
Lower explosion limit : Ethanol: 3,1 %(V)  
Propan-2-ol: 2 %(V)

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Upper explosion limit	: Ethanol: 15 %(V) Propan-2-ol: 12 %(V)
Flammability	: Sustains combustion
Explosive properties	: Not explosive
Oxidizing properties	: no data available
pH	: not applicable
Melting point/freezing point	: < -5 °C
Decomposition temperature	: no data available
Boiling point/boiling range	: ca. 80 °C
Vapour pressure	: ca. 50 hPa, 20 °C
Relative vapour density	: no data available
Density	: ca. 0,83 g/cm <sup>3</sup> , 20 °C
Water solubility	: in all proportions, 20 °C
Partition coefficient: n-octanol/water	: not applicable
Flow time	: < 15 s at 20 °C, DIN 53211
Evaporation rate	: 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

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

### 10.4 Conditions to avoid

Heat, flames and sparks.

### 10.5 Incompatible materials

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

##### Product

Acute oral toxicity : The toxicity of XXX corresponds approximately to that of ethanol (oral toxicity LD 50 of >2000mg/kg in rats). 2-biphenylol, which is present at 0,1% in XXX, has an oral toxicity LD 50 of 2700mg/kg in rats.

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

Acute inhalation toxicity : LC50: 39 mg/l, 4 h, mouse  
Acute dermal toxicity : LD50: 20000 mg/kg, rabbit

**Propan-2-ol:**

Acute inhalation toxicity : LC50: 39 mg/l, 4 h, rat  
Acute dermal toxicity : LD50: > 5000 mg/kg, rabbit

**Biphenyl-2-ol:**

Acute inhalation toxicity : LC0: > 36 mg/l, rat  
Acute dermal toxicity : LD50: > 2000 mg/kg, rat

**Skin corrosion/irritation****Product**

No skin irritation

**Serious eye damage/eye irritation****Product**

Causes serious eye irritation.

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

Did not cause sensitisation on laboratory animals. Maximisation Test (GPMT) guinea pig

**Propan-2-ol:**

Did not cause sensitisation on laboratory animals. Buehler Test guinea pig

**Biphenyl-2-ol:**

Did not cause sensitisation on laboratory animals. Maximisation Test (GPMT) guinea pig

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

Genotoxicity in vitro : Not mutagenic in Ames Test. OECD Test Guideline 471  
Genotoxicity in vivo : not mutagenic  
Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

**Propan-2-ol:**

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

**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 : Animal testing did not show any carcinogenic effects.

**Biphenyl-2-ol:**

Carcinogenicity - Assessment : no data available

**Reproductive toxicity**

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

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:**

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

**Biphenyl-2-ol:**

Reproductive toxicity - Assessment : no data available

**Teratogenicity****Components:****Ethanol:**

rat, Oral, NOAEL: 2.000 mg/kg

Teratogenicity - Assessment : Animal experiments showed mutagenic and teratogenic effects.

**Propan-2-ol:**

Teratogenicity - Assessment : Ingestion of excessive amounts by pregnant animals resulted in maternal and foetal toxicity.

**Biphenyl-2-ol:**

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

**STOT - single exposure**

no data available

**STOT - repeated exposure**

no data available

**Repeated dose toxicity****Components:****Ethanol:**

rat: NOAEL: 2.400 mg/kg , Oral

**Aspiration toxicity**

no data available

**SECTION 12: Ecological information****12.1 Toxicity****Product**

Toxicity to bacteria : EC50: 4.000 mg/l, OECD 209

**12.2 Persistence and degradability****Product**

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

**12.3 Bioaccumulative potential****Product**

Partition coefficient: n-octanol/water : not applicable



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**12.4 Mobility in soil****Components:****Ethanol :**

Mobility : no data available

**Propan-2-ol :**

Mobility : Mobile in soils

**Biphenyl-2-ol :**

Mobility : no data available

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

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

**12.6 Other adverse effects****Product**

Additional ecological information : none

**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 : 1987

IMDG : 1987

IATA : 1987

**14.2 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**

ADR : 3

IMDG : 3

IATA : 3

**14.4 Packing group**

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**ADR**

Packaging group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Tunnel restriction code : D/E

**IMDG**

Packaging group : II  
Labels : 3  
EmS Number : F-E, S-D

**IATA**

Packaging group : II  
Labels : 3

**14.5 Environmental hazards****ADR**

Environmentally hazardous : no

**IMDG**

Marine pollutant : no

**IATA**

Environmentally hazardous : no

**14.6 Special precautions for user**

For personal protection see section 8.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Exempt

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Legislation on the control of major-accident hazards involving dangerous substances : The product belongs to at least one of the categories 1 through 11 mentioned in Annex 1 of the Directive 1996/82/EC concerning the control of major accident hazards.

Volatile organic compounds : 88,2 %, Directive 1999/13/EC on the limitation of emissions of volatile organic compounds

**15.2 Chemical Safety Assessment**

Exempt

**SECTION 16: Other information****Full text of R-Phrases**

R11 Highly flammable.  
R36 Irritating to eyes.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R50 Very toxic to aquatic organisms.  
R67 Vapours may cause drowsiness and dizziness.

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**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.

**Full text of other abbreviations**

Aquatic Acute	Acute aquatic toxicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure

**Further information**

|| Changes compared with the previous edition!!!

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.