

**desderman pure gel****No Change Service!**

Version 00.00

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : desderman pure gel

**1.2 Relevant identified uses of the substance or mixture and uses advised against**Use of the Sub-  
stance/Mixture : Disinfectants and general biocidal productsRecommended restrictions  
on use : Restricted to professional users.**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-  
ber : UK Poisons Emergency number: 0870 600 6266  
Emergency telephone num-  
ber : +49 (0)40 / 52 100 -0**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.

**Classification (67/548/EEC, 1999/45/EC)**

Highly flammable

R11: Highly flammable.

**2.2 Label elements****Labelling**

Hazard pictograms



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Signal word	:	Danger	
Hazard statements	:	H225 H319	Highly flammable liquid and vapour. Causes serious eye irritation.
Precautionary statements	:	P210  P305+P351+P338  P403+P233  P501	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store in a well-ventilated place. Keep con- tainer tightly closed. Dispose of contents/ container to an ap- proved waste disposal plant.

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 and toxic (PBT).  
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 %

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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.

**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 : Alcohol-resistant foam, Dry powder, 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 : 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**

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

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**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

**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****Occupational Exposure Limits**

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 1.920 mg/m <sup>3</sup>	TRGS 900
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	400 ppm	OSHA

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	limit	980 mg/m <sup>3</sup>
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**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

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) according to Regulation (EC) No. 1907/2006:**

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 : viscous  
 Colour : colourless  
 Odour : alcohol-like  
 Flash point : 13 °C, DIN 53213, 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)  
 Upper explosion limit : Ethanol: 15 %(V)  
 Propan-2-ol: 12 %(V)  
 Flammability : Sustains combustion  
 Explosive properties : No data available  
 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  
 Viscosity, dynamic : 700 - 1.300 mPa\*s, 20 °C, DIN 53019  
 Evaporation rate : No data available

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

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

Mild eye irritation, Rabbit

**Propan-2-ol:**

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Irritating to eyes.

**Biphenyl-2-ol:**

Eye irritation, Rabbit

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

Effects on foetal development : Rat, Oral, NOAEL: 2.000 mg/kg

Reproductive toxicity - Assessment : In animal testing, risk of impaired fertility was shown only after administration of very high doses of this substance.

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

**Propan-2-ol:**

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

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

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**Biphenyl-2-ol:**

Reproductive toxicity - Assessment : No data available

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

**Further information****Product**

The product has not been tested. The classification was made according to the calculation procedure of the Preparations Directive.

**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

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

Biodegradability : Readily biodegradable.

**Propan-2-ol:**

Biodegradability : Readily biodegradable.

**Biphenyl-2-ol:**

Biodegradability : &gt; 75 o/o, 28 d, OECD 301B/ ISO 9439/ EEC 84/449 C5

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

Partition coefficient: n-octanol/water : Not applicable

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

Bioaccumulation : Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -0,14, calculated

**Propan-2-ol:**

Bioaccumulation : No bioaccumulation is to be expected (log Pow &lt;= 4).

Partition coefficient: n-octanol/water : log Pow: 0,05 (20 °C) , OECD Test Guideline 107



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**Biphenyl-2-ol:**

Bioaccumulation : Bioconcentration factor (BCF): 21,07, Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 3,18

**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 and 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 : UN 1987

IMDG : UN 1987

IATA : UN 1987

**14.2 UN proper shipping name**ADR : ALCOHOLS, N.O.S.  
(Propan-2-ol, Ethanol)IMDG : ALCOHOLS, N.O.S.  
(Propan-2-ol, Ethanol)

IATA : Alcohols, n.o.s.

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(Propan-2-ol, Ethanol)

**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  
Labels : 3  
Tunnel restriction code : D/E

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

**IATA**  
Packing group : II  
Labels : 3

**14.5 Environmental hazards**

**ADR**  
Environmentally hazardous : no

**IMDG**  
Marine pollutant : 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**

Not applicable for product as supplied.

**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 %, Directive 1999/13/EC on the limitation of emissions of volatile organic compounds

**15.2 Chemical Safety Assessment**

Exempt

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**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.

**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.