

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke -+

desderman® pure **No Change Service!**

Version 02.00

Revision Date 19.12.2014

Date of last issue 07.12.2012

Date of first issue 07.07.2008

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

Producer/Supplier : Schülke & Mayr GmbH
Robert-Koch-Str. 2
22851 Norderstedt
Germany
Telephone: +4940521000
Telefax: +494052100318
mail@schuelke.com
www.schuelke.com

Contact person : Application Department HI
+49 (0)40/ 521 00 544
ADHI@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 (REGULATION (EC) No 1272/2008)

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Hazard pictograms



Signal word

: Danger

Hazard statements

: H225
H319

Highly flammable liquid and vapour.
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 mixture contains no substance considered to be persistent, bioaccumulating and 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-	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	10 %

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	25-XXXX			
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 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 : Dry powder, Alcohol-resistant foam, Water spray jet, Carbon dioxide (CO₂)
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.

desderman® pure No Change Service!

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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 upMethods 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 incompatibilitiesRequirements 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	WEL	1.000 ppm 1.920 mg/m ³	HSE
Propan-2-ol	67-63-0	WEL	400 ppm 999 mg/m ³	HSE
Propan-2-ol	67-63-0	WEL	500 ppm	HSE

desderman® pure No Change Service!

Version 02.00

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1.250 mg/m3

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

Ethanol	: End Use: Workers, Exposure routes: Inhalation, Potential health effects: Acute effects, Local effects, Value: 1900 mg/m3 End Use: Workers, Exposure routes: Skin contact, Potential health effects: Chronic effects, Value: 343 mg/m3 End Use: Workers, Exposure routes: Inhalation, Potential health effects: Chronic effects, Value: 950 mg/m3
Propan-2-ol	: End Use: Workers, Exposure routes: Skin contact, Potential health effects: Chronic effects, Value: 888 mg/m3 End Use: Workers, Exposure routes: Inhalation, Potential health effects: Chronic effects, Value: 500 mg/m3

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

Ethanol	: Fresh water, Value: 0,96 mg/l Marine water, Value: 0,79 mg/l Fresh water sediment, Value: 3,6 mg/kg Soil, Value: 0,63 mg/kg
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.
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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
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)
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

desderman® pure No Change Service!

Version 02.00

Revision Date 19.12.2014

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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 ³ , 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	: Acute toxicity estimate: > 5000 mg/kg, Estimation of acute oral toxicity, in accordance with the calculation methode presented in the GHS (Globally Harmonized System), Part 3, Chapter 3.1)
Acute inhalation toxicity	: Acute toxicity estimate: 40 mg/l, in accordance with the calculation methode presented in the GHS (Globally Harmonized System), Part 3, Chapter 3.1)
Acute dermal toxicity	: Acute toxicity estimate: > 15000 mg/kg, in accordance with the calculation methode presented in the GHS (Globally Harmonized System), Part 3, Chapter 3.1)

desderman® pure No Change Service!

Version 02.00

Revision Date 19.12.2014

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Skin corrosion/irritation**Product**

No skin irritation

Serious eye damage/eye irritation**Product**

|| Causes serious eye irritation., Calculation method

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.

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Version 02.00

Revision Date 19.12.2014

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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.

Biphenyl-2-ol:

Reproductive toxicity - Assessment

: No data available

Teratogenicity - Assessment

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

STOT - single exposure

Components:

Ethanol:

No data available

Propan-2-ol:

|| May cause drowsiness or dizziness.

Biphenyl-2-ol:

Respiratory system, May cause respiratory irritation.

STOT - repeated exposure

Components:

Propan-2-ol:

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

Biphenyl-2-ol:

|| 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

Components:

Ethanol:

Biodegradability

: Readily biodegradable.

Propan-2-ol:

Biodegradability

: Readily biodegradable.

Biphenyl-2-ol:

Biodegradability

: > 75 o/o, 28 d, OECD 301B/ ISO 9439/ EEC 84/449 C5

12.3 Bioaccumulative potential

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Version 02.00

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Date of first issue 07.07.2008

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 <= 4).

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

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.

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SECTION 14: Transport information**14.1 UN number**

ADR : UN 1987
IMDG : UN 1987
IATA : UN 1987

14.2 UN proper shipping name

ADR : ALCOHOLS, N.O.S.
(Ethanol, Propan-2-ol)
IMDG : ALCOHOLS, N.O.S.
(Ethanol, Propan-2-ol)
IATA : Alcohols, n.o.s.
(Ethanol, Propan-2-ol)

14.3 Transport hazard class(es)

ADR : 3
IMDG : 3
IATA : 3

14.4 Packing group

ADR
Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3
Tunnel restriction code : D/E
IMDG
Packing group : II
Labels : 3
EmS Code : F-E, S-D
IATA
Packing instruction (cargo aircraft) : 364
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.

desderman® pure No Change Service!

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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 2010/75/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.

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.

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