

desmanol® pure **No Change Service!**Version
03.04Revision Date:
27.05.2019Date of last issue: 27.08.2018
Date of first issue: 10.07.2012**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : desmanol® pure

1.2 Relevant identified uses of the substance or mixture and uses advised againstUse of the Sub-
stance/Mixture : Private area and public health area disinfectants and other
biocidal products**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.comE-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**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.
Specific target organ toxicity - single exposure, Category 3	H336: May cause drowsiness or dizziness.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)**

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Hazard pictograms	:	 
Signal word	:	Danger
Hazard statements	:	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	:	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing vapours. 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.

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.

Take precautionary measures against static discharge.

Vapours are heavier than air and may spread along floors.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Alcoholic solution

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
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	75
Myristylalcohol	112-72-1 204-000-3 - - - 01-2119485910-33-	Eye Irrit. 2; H319 Aquatic Chronic 1; H410	< 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 : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If eye irritation persists, consult a specialist.
- If swallowed : Prevent vomiting if possible.
Aspiration hazard if swallowed - can enter lungs and cause damage.
Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.
irritant effects
Breathing difficulties

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 : Water spray jet
Dry powder
Alcohol-resistant foam
Carbon dioxide (CO₂)
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

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.
Vapour/air-mixtures are explosive at intense warming.

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Pay attention to flashback.

Hazardous combustion products : 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.
Do not breathe vapour.**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 chapter 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 : Take measures to prevent the build up of electrostatic charge.
Vapours may form explosive mixtures with air.

Hygiene measures : Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep containers tightly closed in a cool, well-ventilated place.

Further information on storage conditions : Keep away from direct sunlight. Keep at temperature not exceeding 25 °C.

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

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Do not store near acids.

7.3 Specific end use(s)

Specific use(s) : none

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
Propan-2-ol	Workers	Skin contact	Long-term systemic effects	888 mg/kg
	Workers	Inhalation	Long-term systemic effects	500 mg/m ³
Myristylalcohol	Workers	Skin contact	Short-term exposure, Systemic effects	125 mg/kg
	Workers	Inhalation	Short-term exposure, Systemic effects	220 mg/m ³
	Workers	Skin contact	Long-term exposure, Systemic effects	125 mg/kg
	Workers	Inhalation	Long-term exposure, Systemic effects	220 mg/m ³
	Consumers	Dermal	Short-term exposure, Systemic effects	75 mg/kg
	Consumers	Inhalation	Short-term exposure, Systemic effects	65 mg/m ³
	Consumers	Oral	Short-term exposure, Systemic effects	75 mg/kg
	Consumers	Dermal	Long-term systemic effects	75 mg/kg
	Consumers	Inhalation	Long-term systemic effects	65 mg/m ³
	Consumers	Oral	Long-term systemic effects	75 mg/kg

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

Substance name	Environmental Compartment	Value
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
	Effects on waste water treatment plants	2251 mg/l
Myristylalcohol	Oral	160 mg/kg food
	Fresh water	0,00032 mg/l
	Marine water	0,000032 mg/l
	Fresh water sediment	0,36 mg/kg
	Marine sediment	0,036 mg/kg

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	Soil	0,28 mg/kg
	Sewage treatment plant	0,0019 mg/l

8.2 Exposure controls

Personal protective equipment

- Eye protection : If splashes are likely to occur, wear:
Safety glasses with side-shields conforming to EN166
- Hand protection : Not applicable
- Protective measures : Avoid contact with eyes.

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 : < -20 °C
- Decomposition temperature : No data available
- Boiling point/boiling range : 82 - 83 °C
Method: DIN 53171
Raw material
- Flash point : approx. 20 °C
Method: DIN EN ISO 13736
- Evaporation rate : No data available
- Flammability (solid, gas) : Not applicable
- Upper explosion limit / Upper flammability limit : 12 %(V)
Raw material
- Lower explosion limit / Lower flammability limit : 2 %(V)
Raw material
- Vapour pressure : approx. 43 hPa (20 °C)
Raw material
- Vapour density : approx. 2,07
Raw material
- Relative density : approx. 0,85 g/cm³ (20 °C)

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Solubility(ies)	
Water solubility	: in all proportions (20 °C)
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: 425 °C Raw material
Viscosity	
Viscosity, dynamic	: approx. 3,6 mPa*s Method: ISO 3219
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2 Other information

Self-ignition : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Vapours may form explosive mixture with air.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : Exothermic reaction with strong acids.
Reaction with certain metals (e.g. iron)

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.
Exposure to sunlight.

10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents
Rubber products

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

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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: 52 mg/l

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

Components:**Propan-2-ol:**

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

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

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

Myristylalcohol:Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : Remarks: No data available

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

Skin corrosion/irritation**Components:****Propan-2-ol:**

Result : No skin irritation

Myristylalcohol:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

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

Assessment : Causes serious eye irritation.

Method : Calculation method

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Components:**Propan-2-ol:**

Result : Causes serious eye irritation.

Myristylalcohol:

Assessment : Irritating to eyes.

Respiratory or skin sensitisation**Components:****Propan-2-ol:**Test Type : Buehler Test
Species : Guinea pig
Result : Did not cause sensitisation on laboratory animals.**Myristylalcohol:**Species : Guinea pig
Method : OECD Test Guideline 406
Result : Did not cause sensitisation on laboratory animals.**Germ cell mutagenicity****Components:****Propan-2-ol:**Genotoxicity in vitro : Test Type: Ames test
Method: Mutagenicity (Escherichia coli - reverse mutation assay)
Result: Non mutagenicGenotoxicity in vivo : Species: Mouse
Method: Mutagenicity (micronucleus test)
Remarks: Non mutagenic

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

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

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

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Carcinogenicity**Components:****Propan-2-ol:**

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

Myristylalcohol:

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

Reproductive toxicity**Components:****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.

Myristylalcohol:

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

STOT - single exposure**Product:**Assessment : May cause drowsiness or dizziness.
Remarks : Calculation method**Components:****Propan-2-ol:**

Assessment : May cause drowsiness or dizziness.

Myristylalcohol:

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

STOT - repeated exposure**Components:****Propan-2-ol:**

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

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Myristylalcohol:

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

Repeated dose toxicity

Components:

Myristylalcohol:

Remarks : No data available

Aspiration toxicity

No data available

Further information

Product:

Remarks : Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Components:

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

Myristylalcohol:

Toxicity to fish : LC50 (Brachidanio rerio): > 100 mg/l
Method: ISO 7346/2

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 1 - 10 mg/l
Method: OECD Test Guideline 202

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Toxicity to algae : (Desmodesmus subspicatus (green algae)): 10 - 100 mg/l
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: > 1 - 10 mg/l
Species: Brachidanio rerio
Remarks: The toxicological data has been taken from products of similar composition.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0,001 - 0,01 mg/l
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, according to appropriate OECD test.
Method: OECD Test Guideline 301D

Components:

Propan-2-ol:

Biodegradability : Result: Readily biodegradable.

Myristylalcohol:

Biodegradability : Result: Readily biodegradable.

12.3 Bioaccumulative potential

Components:

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

Myristylalcohol:

Bioaccumulation : Remarks: Does not significantly accumulate in organisms.

12.4 Mobility in soil

Components:

Propan-2-ol:

Mobility : Remarks: Mobile in soils

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Myristylalcohol:

Mobility : Remarks: After release, adsorbs onto soil., The product evaporates slowly.

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 information : No data is available on the product itself.

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

IMDG : UN 1219

IATA (Cargo) : UN 1219

14.2 UN proper shipping name

IMDG : ISOPROPANOL, SOLUTION

IATA (Cargo) : ISOPROPANOL, SOLUTION

14.3 Transport hazard class(es)

IMDG : 3

IATA (Cargo) : 3

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Exempt

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

H225 : Highly flammable liquid and vapour.
 H319 : Causes serious eye irritation.
 H336 : May cause drowsiness or dizziness.
 H410 : Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard
 Eye Irrit. : Eye irritation
 Flam. Liq. : Flammable liquids
 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 - 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 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

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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
STOT SE 3, H336	: Calculation method
Aquatic Chronic 3, H412	: Calculation method

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

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