according to Regulation (EC) No. 1907/2006



dentavon® liquid No Change Service!

Version Revision Date: Date of last issue: 14.10.2015 03.00 01.08.2017 Date of first issue: 08.09.2006

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

1.1 Product identifier

Trade name : dentavon® liquid

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- : Disinfectants

stance/Mixture

: Restricted to professional users.

Recommended restrictions on use

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 : Application Department responsible for the +49 (0)40/ 521 00 8800 SDS/Contact person ADHI@schuelke.com

(Schülke & Mayr UK Ltd.: +44-1142543500)

1.4 Emergency telephone number

Emergency telephone num: UK Poisons Emergency number: 0870 600 6266

ber

Emergency telephone num- : +49 (0)40/ 52100-0

ber

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 H315: Causes skin irritation.

Skin sensitisation, Category 1

Eye irritation, Category 2

Specific target organ toxicity - single ex
H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

posure, Category 3

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

according to Regulation (EC) No. 1907/2006



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Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.

Precautionary statements : P261 Avoid breathing vapours.

P280 Wear protective gloves/ eye protection/ face

protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and

water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/

attention.

Hazardous components which must be listed on the label:

111-30-8 Glutaral

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.

No special risks known.

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	Concentration (% w/w)
Glutaral	605-022-00-X 111-30-8 203-856-5 01-2119455549-26- XXXX	Acute Tox. 3; H301 Acute Tox. 2; H330 Skin Corr. 1B; H314 Resp. Sens. 1; H334 Skin Sens. 1A; H317 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 EUH071	<1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

according to Regulation (EC) No. 1907/2006



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4.1 Description of first aid measures

General advice : Take off all contaminated clothing immediately.

If inhaled Move to fresh air.

In case of skin contact : Wash off immediately with plenty of water. If symptoms per-

sist, call a physician.

: In the case of contact with eyes, rinse immediately with plenty In case of eye contact

of water and seek medical advice.

If swallowed : Obtain medical attention.

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, Foam, Carbon dioxide (CO2), Water spray jet

Unsuitable extinguishing

media

: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: none

Specific risk from the substance or the product itself, its combustion products or

evolved gases

: No special precautions required.

5.3 Advice for firefighters

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

for firefighters

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation. Use personal protective equip-

ment.

6.2 Environmental precautions

Environmental precautions : Avoid subsoil penetration.

6.3 Methods and material for containment and cleaning up

: Wipe up with absorbent material (e.g. cloth, fleece). Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

according to Regulation (EC) No. 1907/2006



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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

Advice on protection against

fire and explosion Hygiene measures Provide sufficient air exchange and/or exhaust in work rooms.No special protective measures against fire required. The

product is not flammable.

: Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

Further information on stor-

age conditions
Advice on common storage

: Store at room temperature in the original container.

: Keep away from heat. Keep away from direct sunlight. Keep

container tightly closed.

: Keep away from food and drink.

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
Glutaral	111-30-8	Short term expo- sure limit	0,05 ppm	ACGIH

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Glutaral	Workers	Inhalation	Long-term local ef- fects	0,0106 mg/m3

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

Substance name	Environmental Compartment Value	
Glutaral	Fresh water	0,0025 mg/l
	Marine water	0,00025 mg/l
	Fresh water sediment	0,091 mg/kg
	Marine sediment	0,009 mg/kg
	Soil	0,18 mg/kg
	Effects on waste water treatment plants	0,8 mg/l
	Intermittent use/release	0,006 mg/l

8.2 Exposure controls

Personal protective equipment

according to Regulation (EC) No. 1907/2006



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Eye protection : If splashes are likely to occur, wear:

Safety glasses with side-shields conforming to EN166

Hand protection

Directive : The selected protective gloves have to satisfy the specifica-

tions of EU Directive 89/686/EEC and the standard EN 374

derived from it.

Remarks : Splash protection: disposable nitrile rubber gloves e.g.

Dermatril (layer thickness: 0.11 mm) made by KCL or gloves from other manufacturers offering the same protection. Prolonged contact: Nitrile rubber gloves e.g. Camatril (>480 Min., layer thickness: 0,40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm) made by KCL or gloves

from other manufacturers offering the same protection.

Respiratory protection : Ensure adequate ventilation, especially in confined areas.

In case of insufficient ventilation, wear suitable respiratory

equipment.

Respiratory protection complying with EN 141.

Recommended Filter type:

Α

Protective measures : Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid
Colour : light blue
Odour : characteristic
Odour Threshold : not determined

pH : ca. 3,4, 20 °C, (undiluted)

Melting point/freezing point : < -5 °C

Decomposition temperature : Not applicable
Boiling point/boiling range : ca. 100 °C

.

Flash point Not applicable No data available Evaporation rate Flammability (solid, gas) Not applicable : Not applicable Upper explosion limit Lower explosion limit : Not applicable Vapour pressure No data available Relative vapour density : No data available Density : ca. 1,01 g/cm3, 20 °C

Solubility(ies)

Water solubility : in all proportions , 20 °C

Partition coefficient: n- : Not applicable

octanol/water

Auto-ignition temperature : No data available Explosive properties : No data available Oxidizing properties : No data available

according to Regulation (EC) No. 1907/2006



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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

None reasonably foreseeable.

10.4 Conditions to avoid

Protect from frost, heat and sunlight.

10.5 Incompatible materials

No data available,

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: > 10.000 mg/kg
Acute inhalation toxicity : Acute toxicity estimate: ca. 38 mg/l
Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg

Skin corrosion/irritation

Product:

Causes skin irritation., Calculation method

Serious eye damage/eye irritation

Product:

Causes serious eye irritation., Calculation method

Respiratory or skin sensitisation

Product:

May cause an allergic skin reaction.

Germ cell mutagenicity

Components:

Glutaral:

Genotoxicity in vitro : Conflicting results have been seen in different studies.

Did not show mutagenic effects in animal experiments.

Germ cell mutagenicity- As-

sessment

Did not show mutagenic effects in animal experiments.

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Carcinogenicity

Components:

Glutaral:

Carcinogenicity - Assess-

ment

: Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Components:

Glutaral:

Reproductive toxicity - As-

sessment

: Animal testing did not show any effects on fertility.

STOT - single exposure

Product:

May cause respiratory irritation.

STOT - repeated exposure

Components:

Glutaral:

No data available

Repeated dose toxicity

Components:

Glutaral:

No adverse effect has been observed in chronic toxicity tests.

Aspiration toxicity

No data available

Further information

Product:

No data is available on the product itself.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Glutaral:

Toxicity to fish

: LC50 (Lepomis macrochirus (Bluegill sunfish)): 9,4 mg/l, 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 5,75 mg/l, 48 h

Toxicity to algae : EC50 (

: EC50 (Desmodesmus subspicatus (green algae)): 0,6 mg/l,

72 h, OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 0,025

mg/l, 72 h, OECD Test Guideline 201

M-Factor (Acute aquatic tox-

icity)

: 1

Toxicity to fish (Chronic tox-

1

: NOEC: 1,6 mg/l , 97 d, Oncorhynchus mykiss (rainbow trout)

icity)

Toxicity to daphnia and other aquatic invertebrates (Chron-

: NOEC: 2,5 mg/l, 21 d, Daphnia magna (Water flea)

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: 1

ic toxicity)

M-Factor (Chronic aquatic

toxicity)

12.2 Persistence and degradability

Product:

Biodegradability : According to OECD criteria, the product is inherently biode-

gradable., The statement has been derived from the proper-

ties of the individual components.

Components:

Glutaral:

Biodegradability : Readily biodegradable., Biodegradation: 90 - 100 %, Expo-

sure time: 28 d, OECD Test Guideline 301A

12.3 Bioaccumulative potential

Components:

Glutaral:

Bioaccumulation : Does not bioaccumulate.

Partition coefficient: n- : log Pow: ca. -0,36 (23 °C), , pH: 7, Directive 92/69/EEC, A.8

octanol/water

12.4 Mobility in soil

Components:

Glutaral:

Mobility : Mobile in soils

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-

: none

mation

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

Waste key for the unused

Take empty packaging to the recycling plant.

product

Waste key for the unused

product(Group)

: European waste catalog (EWC) 070601

: Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products.

SECTION 14: Transport information

according to Regulation (EC) No. 1907/2006



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14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

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

REACH - Candidate List of Substances of Very High : Not applicable

Concern for Authorisation (Article 59).

Regulation (EC) No 850/2004 on persistent organic pol- : Not applicable

: Not applicable

lutants

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of majoraccident hazards involving dangerous substances.

Volatile organic compounds : Volatile organic compounds (VOC) content: 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 val-

ues.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

according to Regulation (EC) No. 1907/2006



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Full text of H-Statements

EUH071 : Corrosive to the respiratory tract.

H301 : Toxic if swallowed.

H314 : Causes severe skin burns and eye damage.

H317 : May cause an allergic skin reaction.

H330 : Fatal if inhaled.

H334 : May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

H335 : May cause respiratory irritation.

H400 : Very toxic to aquatic life.

H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Acute aquatic toxicity
Aquatic Chronic : Chronic aquatic toxicity
Resp. Sens. : Respiratory sensitisation

Skin Corr. : Skin corrosion Skin Sens. : Skin sensitisation

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; 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

according to Regulation (EC) No. 1907/2006



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Further information

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

Skin Irrit. 2, H315 : Calculation method Skin Sens. 1, H317 : Calculation method Eye Irrit. 2, H319 : Calculation method : Calculation method : Calculation method

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.