according to Regulation (EC) No. 1907/2006



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

1.1 Product identifier

Trade name : antifect® N liquid

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

Use of the Sub-

Disinfectants and general biocidal products

stance/Mixture

Recommended restrictions

on use

Restricted to professional users.

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 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-

: UK Poisons Emergency number: 0870 600 6266

ber

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Specific target organ toxicity - single ex-

e ex-

H336: May cause drowsiness or dizziness.

posure, Category 3

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



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Hazard pictograms





Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements : P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. P261 Avoid breathing vapours/ spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves (e.g. Nitrile rubber) /eye protec-

tion.

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.

P501 Dispose of contents/ container to an approved waste

disposal plant.

Further information : Use biocides safely. Always read the label and product infor-

mation before use.

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

Vapours may form explosive mixtures with air.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Solution of the following substances with harmless additives.

Components

Chemical name	CAS-No. EC-No.	Classification	Concentration (% w/w)
	Index-No.		
	Registration number		
Ethanol	64-17-5	Flam. Liq. 2; H225	25
	200-578-6	Eye Irrit. 2; H319	
	603-002-00-5		
	01-2119457610-43-		
	XXXX		
Propan-1-ol	71-23-8	Flam. Liq. 2; H225	35
	200-746-9	Eye Dam. 1; H318	
	603-003-00-0	STOT SE 3: H336	



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01-2119486761-29-XXXX

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 skin contact : Wash with water and soap as a precaution.

If symptoms persist, call a physician.

In case of eye contact : In case of eye contact, remove contact lens and rinse imme-

diately with plenty of water, also under the eyelids, for at least

15 minutes.

If eye irritation persists, consult a specialist.

If swallowed : Do NOT induce vomiting.

Clean mouth with water and drink afterwards plenty of water.

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

Alcohol-resistant foam Carbon dioxide (CO2) Water spray jet

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.

Hazardous combustion prod: Vapours may form explosive mixtures with air.



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ucts

5.3 Advice for firefighters

Special protective equipment :

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

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 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 : Provide sufficient air exchange and/or exhaust in work rooms.

Use only in well-ventilated areas.

Advice on protection against

fire and explosion

Keep away from sources of ignition - No smoking. The hot

product gives off combustible vapours.

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. Do not

store at temperatures above 30°C.

Further information on stor-

age conditions

Keep away from direct sunlight. Keep container tightly closed.

Recommended storage temperature: 5 - 25°C

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

7.3 Specific end use(s)

Specific use(s) : none



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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
Ethanol	Workers	Inhalation	Acute effects, Local effects	1900 mg/m3
	Workers	Skin contact	Chronic effects	343 mg/kg
	Workers	Inhalation	Chronic effects	950 mg/m3
Propan-1-ol	Workers	Skin contact	Long-term systemic effects	136 mg/kg
	Workers	Inhalation	Long-term systemic effects	268 mg/m3
	Workers	Inhalation	Short-term exposure, Systemic effects	1723 mg/m3

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

Substance name	Environmental Compartment	Value
Ethanol	Fresh water	0,96 mg/l
	Marine water	0,79 mg/l
	Fresh water sediment	3,6 mg/kg
	Soil	0,63 mg/kg
Propan-1-ol	Fresh water	10 mg/l
	Marine water	1 mg/l
	Fresh water sediment	22,8 mg/kg
	Marine sediment	2,28 mg/kg
	Effects on waste water treatment plants	96 mg/l
	Soil	2,2 mg/kg
	Intermittent use/release	10 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection

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

tions of Regulation (EU) 2016/425 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 (>120 Min., layer thickness: 0.40 mm) or butyl rubber gloves

(>120 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 : No personal respiratory protective equipment normally re-



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quired.

If the occupational exposure limits cannot be met, in exceptional cases suitable respiratory equipment should be worn

only for a short period of time. Recommended Filter type:

A-P2 or ABEK-P2

Respiratory protection complying with EN 143.

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 : approx. 7 (20 °C)

Melting point/freezing point : < -5 °C

Decomposition temperature No data available

Boiling point/boiling range : approx. 80 °C

Flash point : 27 °C

Method: DIN 51755 Part 1

Evaporation rate : No data available

Flammability (solid, gas) Upper explosion limit / Upper

flammability limit

: Not applicable 17,5 %(V) Raw material

Lower explosion limit / Lower

flammability limit

2,1 %(V) Raw material

Vapour pressure : approx. 50 hPa (20 °C)

Vapour density : No data available

Relative density : 0,890 g/cm3 (20 °C)

Solubility(ies)

Water solubility : in all proportions (20 °C)

Partition coefficient: n-

octanol/water

: Not applicable



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Auto-ignition temperature : 412 °C

Raw material

Flow time : < 15 s at 20 °C

Method: DIN 53211

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

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

Reaction with oxidising agents

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : 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: > 15.000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: > 50 mg/l

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

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Components:

Ethanol:

Acute oral toxicity : LD50 (Mouse): 8.300 mg/kg

Acute inhalation toxicity : LC50 (Mouse): 39 mg/l

Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): 20.000 mg/kg

Propan-1-ol:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 33,8 mg/l

Exposure time: 4 h

Method: OECD Test Guideline 403

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

Skin corrosion/irritation

Components:

Ethanol:

Species : Rabbit

Result : No skin irritation

Propan-1-ol:

Result : No skin irritation

Serious eye damage/eye irritation

Product:

Assessment : Causes serious eye irritation.

Remarks : Expert judgement

The toxicological data has been taken from products of similar

composition.

Components:

Ethanol:

Species : Rabbit

Assessment : Causes serious eye irritation.

Method : OECD Test Guideline 405

Propan-1-ol:

Result : Causes serious eye damage.



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Respiratory or skin sensitisation

Components:

Ethanol:

Test Type : Maximisation Test

Species : Guinea pig

Result : Did not cause sensitisation on laboratory animals.

Propan-1-ol:

Species : Guinea pig

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

Germ cell mutagenicity

Components:

Ethanol:

Genotoxicity in vitro : Method: OECD Test Guideline 471

Result: Not mutagenic in Ames Test

Genotoxicity in vivo : Remarks: Non mutagenic

Germ cell mutagenicity- As-

sessment

Tests on bacterial or mammalian cell cultures did not show

mutagenic effects.

Propan-1-ol:

Germ cell mutagenicity- As-

sessment

Not mutagenic in Ames Test

Carcinogenicity

Components:

Ethanol:

Carcinogenicity - Assess-

ment

Did not show carcinogenic effects in animal experiments.

Propan-1-ol:

Carcinogenicity - Assess-

ment

Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Components:

Ethanol:

Effects on foetal develop-

: Species: Rat

ment

Application Route: Oral

General Toxicity Maternal: NOAEL: 2.000 mg/kg body weight

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Reproductive toxicity - As-

sessment

In animal testing, risk of impaired fertility was shown only after

administration of very high doses of this substance.

Propan-1-ol:

Effects on foetal develop-

ment

: Species: Rat

Application Route: inhalation (vapour)
General Toxicity Maternal: NOAEL: 8,6 mg/l

Reproductive toxicity - As-

sessment

Animal testing did not show any effects on fertility.

STOT - single exposure

Product:

Assessment : May cause drowsiness or dizziness.

Remarks : Calculation method

Components:

Ethanol:

Remarks : No data available

Propan-1-ol:

Assessment : May cause drowsiness or dizziness.

STOT - repeated exposure

Components:

Ethanol:

Remarks : No data available

Propan-1-ol:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

Ethanol:

Species : Rat

 NOAEL
 : 1.730 mg/kg

 LOAEL
 : 3.160 mg/kg

Application Route : Oral Exposure time : 90 d

Aspiration toxicity

No data available



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Further information

Product:

Remarks : No data is available on the product itself.

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomit-

ing.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Ethanol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 8.140 mg/l

Exposure time: 48 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 5.000 mg/l

Exposure time: 48 h

Toxicity to algae : IC50 (Scenedesmus quadricauda (Green algae)): > 100 mg/l

Exposure time: 72 h

Propan-1-ol:

Toxicity to fish : LC50 (Fish): 3.200 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 3.642 mg/l

Exposure time: 48 h

Toxicity to algae : NOEC (Chlorella pyrenoidosa (aglae)): 1.150 mg/l

Exposure time: 48 h

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC: > 100 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

12.2 Persistence and degradability

Product:

Biodegradability : Result: Readily biodegradable.

Method: OECD 301D / EEC 84/449 C6

Chemical Oxygen Demand

(COD)

13.000 mg/l

Test substance: 1 % solution

Components:

Ethanol:

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Biodegradability : Result: Readily biodegradable.

Propan-1-ol:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 75 % Exposure time: 20 d

12.3 Bioaccumulative potential

Components:

Ethanol:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n- : log Pow: -0,14

octanol/water Method: Calculated value

Propan-1-ol:

Bioaccumulation : Bioconcentration factor (BCF): 0,88

Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: 0,43

12.4 Mobility in soil

Components:

Ethanol:

Mobility : Remarks: No data available

Propan-1-ol:

Mobility : Remarks: 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-

mation

: No data is available on the product itself.

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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 : Take empty packaging to the recycling plant.

: EWC 070604

Waste key for the unused

product

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 1987
IATA (Cargo) : UN 1987

14.2 UN proper shipping name

IMDG : ALCOHOLS, N.O.S.

(Ethanol, Propan-1-ol)

IATA (Cargo) : ALCOHOLS, N.O.S.

(Ethanol, Propan-1-ol)

14.3 Transport hazard class(es)

IMDG : 3
IATA (Cargo) : 3

14.4 Packing group

IMDG

Packing group : III Labels : 3

EmS Code : F-E, S-D

IATA (Cargo)

Packing instruction (cargo : 366

aircraft)

Packing group : III

Labels : Flammable liquid

14.5 Environmental hazards

IMDG

Marine pollutant : no

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14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of Marpol 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

lutants

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of

major-accident hazards involving dangerous substances.
P5c FLAMMABLE LIQUIDS

Volatile organic compounds : Volatile organic compounds (VOC) content: 60 %

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 values.

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

Full text of H-Statements

H225
Highly flammable liquid and vapour.
H318
Causes serious eye damage.
H319
Causes serious eye irritation.
H336
May cause drowsiness or dizziness.

Full text of other abbreviations

Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation Flam. Liq. : Flammable liquids



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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

Further information

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

Flam. Liq. 3, H226 : On basis of test data.

Eye Irrit. 2, H319 : Calculation method

STOT SE 3, H336 : Calculation method

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

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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