



## APESIN HANDAKTIV 1000 ML D

WM 0713321

Order number: 0713321

Version 4.2

Revision Date 17.02.2020

Print Date 08.03.2020

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

#### 1.1 Product identifier

Trade name : APESIN HANDAKTIV 1000 ML D  
Identification number : 61178

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

Use of the Substance/Mixture : Biocidal product  
Restricted to professional users.

#### 1.3 Details of the supplier of the safety data sheet

Company : tana Chemie GmbH  
Rheinallee 96  
55120 Mainz  
Telephone : +49613196403  
Telefax : +4961319642414  
E-mail address : Produktsicherheit@werner-mertz.com  
Responsible/issuing person  
Contact person : Product development / product safety

#### 1.4 Emergency telephone number

112  
+49(0)6131-19240

### 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.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	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

: H226 Flammable liquid and vapour.  
H318 Causes serious eye damage.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

: P102 Keep out of reach of children.  
**Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**Response:**  
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.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

propan-2-ol  
propan-1-ol

Safety data sheet available on request.

### 2.3 Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Alcoholic solution

#### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
propan-2-ol	67-63-0 200-661-7 01-2119457558-25	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 25 - < 40



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propan-1-ol	71-23-8 200-746-9 01-2119486761-29	Flam. Liq. 2; H225 Eye Dam. 1; H318 STOT SE 3; H336	>= 25 - < 40
tetradecanol	112-72-1 204-000-3	Eye Irrit. 2; H319 Aquatic Chronic 1; H410 Aquatic Acute 1; H400	>= 1 - < 2

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.  
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
Protect unharmed eye.  
Continue rinsing eyes during transport to hospital.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Obtain medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : corrosive effects  
Irritation

Risks : No information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : For specialist advice physicians should contact the Poisons Information Service.



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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam, Dry chemical

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

#### 5.3 Advice for firefighters

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

Further information : Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations.  
Vapours can accumulate in low areas.

#### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

#### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).



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### 6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Container may be opened only under exhaust ventilation hood. Open drum carefully as content may be under pressure. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Use explosion-proof equipment. Avoid formation of aerosol. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Store in original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards. Store at room temperature in the original container.
- Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

- Specific use(s) : Biocidal product

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### DNEL

- propan-2-ol**  
**67-63-0:** : End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 888 mg/kg



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**propan-1-ol**  
**71-23-8:**

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 500 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 319 mg/kg

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Long-term systemic effects  
Value: 26 mg/kg

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 89 mg/m<sup>3</sup>

: End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 136 mg/kg

End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 81 mg/kg

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Acute systemic effects  
Value: 1723 mg/m<sup>3</sup>

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 268 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Long-term systemic effects  
Value: 61 mg/kg

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Acute systemic effects  
Value: 1036 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 80 mg/m<sup>3</sup>



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**tetradecanol**  
**112-72-1:**

: End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Acute systemic effects  
Value: 125 mg/kg

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Acute systemic effects  
Value: 220 mg/m<sup>3</sup>

End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 125 mg/kg

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 220 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Acute systemic effects  
Value: 75 mg/kg

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Acute systemic effects  
Value: 65 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Acute systemic effects  
Value: 75 mg/kg

End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 75 mg/kg

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 65 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Long-term systemic effects  
Value: 75 mg/kg

**PNEC**

**propan-2-ol**

: Fresh water



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**67-63-0:**

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

intermittent release

Value: 140,9 mg/l

STP

Value: 2251 mg/l

Oral

Value: 160 mg/kg

**propan-1-ol  
71-23-8:**

: Fresh water  
Value: 10 mg/l

Marine water

Value: 1 mg/l

intermittent release

Value: 10 mg/l

STP

Value: 96 mg/l

Marine sediment

Value: 2,28 mg/kg

Fresh water sediment

Value: 22,8 mg/kg

Soil

Value: 2,2 mg/kg

**tetradecanol  
112-72-1:**

: Fresh water  
Value: 0,00032 mg/l

Marine water

Value: 0,000032 mg/l

STP

Value: 0,0019 mg/l

Fresh water sediment

Value: 0,36 mg/kg





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Marine sediment  
Value: 0,036 mg/kg

Soil  
Value: 0,28 mg/kg

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : not required under normal use  
If splashes are likely to occur, wear:  
Tightly fitting safety goggles

#### Hand protection

Material : not required under normal use

Skin and body protection : not required under normal use

Respiratory protection : Not required; except in case of aerosol formation.  
Recommended Filter type:  
ABEK-P3-filter

#### Environmental exposure controls

General advice : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform  
respective authorities.

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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 : No data available

pH : ca. 7,3

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : ca. 26 °C

Evaporation rate : No data available



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Flammability (solid, gas)	: No data available
Flammability (liquids)	: No data available
Burning rate	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: ca. 0,878 g/cm <sup>3</sup>
Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions., No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

Stable under recommended storage conditions., No decomposition if used as directed.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.



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### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.  
Other information : No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product

Skin corrosion/irritation : May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation : May cause irreversible eye damage.

Respiratory or skin sensitisation : No data available

Germ cell mutagenicity : Not Rated

Carcinogenicity : Not Rated

Reproductive toxicity : Not Rated

STOT - single exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity : Not Rated

Further information : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

#### Components:

**propan-2-ol**  
**67-63-0:**

Acute oral toxicity : LD50 Oral Rat: 5.840 mg/kg  
Method: OECD Test Guideline 401

LD50 Oral Rat: 4.570 mg/kg



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LD50 Oral Rat: 5.045 mg/kg

Acute inhalation toxicity : LC50 Rat, female: 47,5 mg/l  
Exposure time: 8 h  
Method: OECD Test Guideline 403

LC50 Rat: 72,6 mg/l  
Exposure time: 4 h

LC50 Mouse: 27,2 mg/l  
Exposure time: 4 h

LC50 Rat: 25 mg/l  
Exposure time: 6 h  
Method: OECD Test Guideline 403

LC50 Rat: 30 mg/l  
Exposure time: 4 h

LC50 Rat: 10000 ppm  
Exposure time: 6 h

Acute dermal toxicity : LD50 Rabbit: 12.800 mg/kg  
Method: OECD Test Guideline 402

LD50 Dermal Rabbit: 12.870 mg/kg  
Method: OECD Test Guideline 402

LD50 Dermal Rabbit: 13.900 mg/kg  
Method: OECD Test Guideline 402

LD50 Dermal Rabbit: 13.400 mg/kg

Skin corrosion/irritation : Species: Rabbit  
Result: No skin irritation

Serious eye damage/eye irritation : Species: Rabbit  
Result: irritating

Respiratory or skin sensitisation : Test Method: Buehler Test  
Species: Guinea pig  
Result: Does not cause skin sensitisation.

Germ cell mutagenicity

Genotoxicity in vitro : Type: Ames test  
Test species: Salmonella typhimurium



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with and without metabolic activation  
Result: negative

### propan-1-ol

#### 71-23-8:

Acute oral toxicity : LD50 Oral Rat: 1.870 mg/kg

LD50 Rat: ca. 8.000 mg/kg

Acute inhalation toxicity : LC50 Rat: 33,8 mg/l  
Exposure time: 4 h

LC50 Rat: 39,1 mg/l  
Exposure time: 1 h

Acute dermal toxicity : LD50 Rabbit: 4.000 - 10.000 mg/kg

LD50 Rabbit: 4.032 mg/kg

Skin corrosion/irritation : Result: Repeated exposure may cause skin dryness or cracking.

Germ cell mutagenicity

Genotoxicity in vitro : Type: Ames test  
Result: negative

### tetradecanol

#### 112-72-1:

Acute oral toxicity : LD50 Rat: > 2.000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 Rabbit: > 2.000 mg/kg  
Method: OECD Test Guideline 402

Skin corrosion/irritation : Species: Rabbit  
Result: No skin irritation  
Method: OECD Test Guideline 404

Serious eye damage/eye irritation : Species: Rabbit  
Result: Mild eye irritation  
Method: OECD Test Guideline 405



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### SECTION 12: Ecological information

#### 12.1 Toxicity

**Components:**

**propan-2-ol  
67-63-0:**

- Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.400 mg/l  
Exposure time: 96 h
- LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l  
Exposure time: 96 h
- LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
GLP: no
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 13.299 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202
- EC50 (Daphnia magna (Water flea)): 9.714 mg/l  
Exposure time: 24 h
- EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
GLP: no
- (Daphnia (water flea)): > 10.000 mg/l  
Method: OECD Test Guideline 202
- NOEC (Daphnia magna (Water flea)): 30 mg/l  
Exposure time: 21 d
- EC50 (Daphnia magna (Water flea)): 10.000 mg/l  
Exposure time: 48 h
- Toxicity to algae : IC50 (Desmodesmus subspicatus (green algae)): > 1.000 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition
- EC50 (Pseudokirchneriella subcapitata (microalgae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: static test  
GLP: no
- ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l  
Exposure time: 72 h
- EC50 (Scenedesmus subspicatus): > 100 mg/l  
Exposure time: 72 h



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Test Type: static test

Toxicity to bacteria : EC50 (*Aliivibrio fischeri*): 17.700 mg/l  
Exposure time: 5 min  
GLP:

EC10 (*Pseudomonas putida*): 5.175 mg/l  
Exposure time: 18 h  
Method: DIN 38412  
GLP:

### propan-1-ol 71-23-8:

Toxicity to fish : LC50 (*Pimephales promelas* (fathead minnow)): 4.555 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 3.644 mg/l  
Exposure time: 48 h  
Method: Directive 67/548/EEC, Annex V, C.2.

EC50 (*Daphnia magna* (Water flea)): 3.640 - 8.150 mg/l  
Exposure time: 48 h

Toxicity to bacteria : EC50 (*Photobacterium phosphoreum*): 17,7 g/l  
Exposure time: 5 min

EC0 (*Pseudomonas putida*): 2.700 mg/l  
Exposure time: 16 h

IC50 (Bacteria): > 10.000 mg/l  
Exposure time: 16 h

EC0 (see user defined free text): 3.100 mg/l

### tetradecanol 112-72-1:

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

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

Toxicity to algae : EC50 (*Scenedesmus subspicatus*): 10 - 100 mg/l  
Method: OECD Test Guideline 201

Toxicity to bacteria : EC0 (*Pseudomonas putida*): > 100 mg/l  
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: 1 - 10 mg/l  
Species: *Brachydanio rerio*

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : 0,001 - 0,01 mg/l  
Species: *Daphnia magna* (Water flea)  
Method: OECD Test Guideline 211



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### 12.2 Persistence and degradability

#### Components:

##### **propan-2-ol**

##### **67-63-0:**

Biodegradability : Result: rapidly biodegradable  
Biodegradation: 95 %  
Exposure time: 21 d  
Method: OECD 301 E

Inoculum: activated sludge  
Result: rapidly biodegradable  
Biodegradation: 53 %  
Exposure time: 5 d

Result: rapidly biodegradable  
Biodegradation: > 70 %  
Exposure time: 10 d  
GLP: no

Biodegradation: 99,9 %  
Method: see user defined free text

Chemical Oxygen Demand (COD) : 2,32 g/kg

ThOD : 2,40 g/g

##### **propan-1-ol**

##### **71-23-8:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 75 %  
Exposure time: 20 d  
Method: Closed Bottle test

Result: rapidly biodegradable  
Biodegradation: 83 %  
Exposure time: 5 d  
Method: OECD 301 D

Result: rapidly biodegradable  
Biodegradation: 83 - 92 %  
Exposure time: 28 d  
Method: OECD 301 F

Chemical Oxygen Demand (COD) : 2,23 g/g

ThOD : 2,4 g/g

### 12.3 Bioaccumulative potential

#### Components:





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### propan-2-ol

#### 67-63-0:

Bioaccumulation : Bioconcentration factor (BCF): 3

Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-  
octanol/water

: log Pow: 0,05

### propan-1-ol

#### 71-23-8:

Bioaccumulation : Bioconcentration factor (BCF): 3

Partition coefficient: n-  
octanol/water

: log Pow: 0,26

### tetradecanol

#### 112-72-1:

Bioaccumulation : Bioconcentration factor (BCF): 2.300

Partition coefficient: n-  
octanol/water

: log Pow: 6,36

## 12.4 Mobility in soil

### Components:

#### propan-2-ol

##### 67-63-0:

Distribution among  
environmental compartments : Koc: 25Remarks: Highly mobile in soils

#### propan-1-ol

##### 71-23-8:

Distribution among  
environmental compartments : Koc: 33Remarks: Highly mobile in soils

#### tetradecanol

##### 112-72-1:

Distribution among  
environmental compartments : Koc: 45000Remarks: immobile

## 12.5 Results of PBT and vPvB assessment

### Components:

#### propan-2-ol

##### 67-63-0:

Assessment : This substance is not considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT)..

## 12.6 Other adverse effects

### Product:



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Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

### SECTION 14: Transport information

#### 14.1 UN number

ADR : 1987  
IMDG : 1987  
IATA : 1987

#### 14.2 Proper shipping name

ADR : ALCOHOLS, N.O.S.  
(isopropanol, n-propanol)

IMDG : ALCOHOLS, N.O.S.  
(isopropanol, propan-1-ol)

IATA : Alcohols, n.o.s. Not permitted for transport

#### 14.3 Transport hazard class

ADR : 3  
IMDG : 3  
IATA : 3

#### 14.4 Packing group

ADR  
Classification Code : F1  
Packaging group : III  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : (D/E)

IMDG  
Packaging group : III  
Labels : 3  
EmS Number : F-E, S-D

IATA  
(Cargo) : Alcohols, n.o.s. Not permitted for transport



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Packaging group : III  
Labels : 3

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

#### IATA

Environmentally hazardous : no

### 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 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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

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

		Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5.000 000067	50.000 000067

TA Luft List (Germany) : Total dust: Not applicable  
: Inorganic substances in powdered form: Not applicable  
: Inorganic substances in vapour or gaseous form: Not applicable  
: Organic Substances: : portionClass 1: < 0,01 %  
: Carcinogenic substances: Not applicable  
: Mutagenic: Not applicable  
: Toxic to reproduction: Not applicable

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Update: Percent volatile: 63,68 %  
805,62 g/l  
VOC content excluding water



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Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Update: Percent volatile: 63,68 %  
559,08 g/l  
VOC content valid only for coating materials used on wood surfaces

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

Registration number : BC-CF051114-66

according to Detergents Regulation EC 648/2004 : Perfumes, LIMONENE, CITRAL

GISBAU (D) : GD 0

### 15.2 Chemical safety assessment

There is no data available for this product.

## 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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

### Further information

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Classification procedure:	H226	Based on product data or assessment
	H318	Calculation method
	H336	Calculation method
	H412	Calculation method

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



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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

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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