



## **APESIN handactive F 10 X 500 ML**

**WM 0714908**

**Order number: 0714908**

Version 3.0

Revision Date 06.02.2020

Print Date 12.02.2020

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

#### **1.1 Product identifier**

Trade name : APESIN handactive F 10 X 500 ML  
Identification number : 64593

#### **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.

#### **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.

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

#### 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	>= 40 - < 50



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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
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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 : 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.  
If symptoms persist, call a physician.  
Obtain medical attention.

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

- Symptoms : corrosive effects
- 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.

### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**



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Suitable extinguishing media : Alcohol-resistant foam

### 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.

### 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).

### 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



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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.

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

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



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

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>

### PNEC

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

: Fresh water  
Value: 140,9 mg/l

Marine water  
Value: 140,9 mg/l



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propan-1-ol  
71-23-8:

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

: 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

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : 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.



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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.

## 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. 5,4, at 20 °C
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: ca. 23 °C
Evaporation rate	: No data available
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. 0,852 g/cm <sup>3</sup> at 20 °C
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





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

Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 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	: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.
Serious eye damage/eye irritation	: May cause irreversible eye damage.
Respiratory or skin sensitisation	: No data available
Germ cell mutagenicity	: Not Rated



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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
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



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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 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.



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Germ cell mutagenicity

Genotoxicity in vitro

: Type: Ames test  
Result: negative

### 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  
  
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



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	Exposure time: 72 h
	EC50 ( <i>Scenedesmus subspicatus</i> ): > 100 mg/l
	Exposure time: 72 h
	Test Type: static test
Toxicity to bacteria	: EC50 ( <i>Aliivibrio fischeri</i> ): 17.700 mg/l
	Exposure time: 5 min
	GLP:
	EC10 ( <i>Pseudomonas putida</i> ): 5.175 mg/l
	Exposure time: 18 h
	Method: DIN 38412
	GLP:
<b>propan-1-ol</b> <b>71-23-8:</b>	
Toxicity to fish	: LC50 ( <i>Pimephales promelas</i> (fathead minnow)): 4.555 mg/l
	Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 ( <i>Daphnia magna</i> (Water flea)): 3.644 mg/l
	Exposure time: 48 h
	Method: Directive 67/548/EEC, Annex V, C.2.
	EC50 ( <i>Daphnia magna</i> (Water flea)): 3.640 - 8.150 mg/l
	Exposure time: 48 h
Toxicity to bacteria	: EC50 ( <i>Photobacterium phosphoreum</i> ): 17,7 g/l
	Exposure time: 5 min
	EC0 ( <i>Pseudomonas putida</i> ): 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

### 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



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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:

#### 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



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### 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

### 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:

Additional ecological information : There is no data available for this product.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.  
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)



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**IMDG** : ALCOHOLS, N.O.S.  
(isopropanol)

**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  
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



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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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: Not applicable
- 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: 75 %  
804,34 g/l  
VOC content excluding water

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Update: Percent volatile: 75 %  
639 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 : disinfectants

### 15.2 Chemical safety assessment

## 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.

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according to Regulation (EC) No. 1907/2006



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### 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

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

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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