

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

### **1.1 Product identifier**

**Trade name/designation** GREEN&CLEAN WD

**INDEX no.** UFI: 7910-Y0CC-N006-R2P6

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

#### **Relevant identified uses**

##### **Product categories [PC]**

disinfectants

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

#### **Manufacturer**

METASYS Medizintechnik GmbH

Florianistrasse 3

Österreich-6063 Rum bei Innsbruck

Telephone: \*43-512-205420

Telefax: \*43-512-205420-7

E-mail: sebastian.geiger@metasys.com

Dept. responsible for information: DES/ ENT

Information telephone: \*43-512-205420

Information telefax: \*43-512-205420-7

E-mail (competent person): sebastian.geiger@metasys.com

www.metasys.com

### **1.4 Emergency telephone number**

Giftnotruf München \*49-(0)89-19240

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## **SECTION 2: Hazards identification**

### **Hazards description**

#### **Hazard designation:**

The preparation is dangerous in the sense of Directive 1999/45/EC. This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

### **2.1 Classification of the substance or mixture**

#### **Classification according to Regulation (EC) No 1272/2008 [CLP]**

##### **health hazards**

Eye Irrit. 2

##### **hazard statements for health hazards**

H319 Causes serious eye irritation.

##### **Physical hazards**

Flam. Liq. 3

##### **hazard statements for physical hazards**

H226 Flammable liquid and vapour.

##### **Environmental hazards**

Aquatic Chronic 3

##### **hazard statements for environmental hazards**

H412 Harmful to aquatic life with long lasting effects.

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## 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



GHS02

GHS07

Signal word

Warning

Hazard statements

**Hazard statements for physical hazards:**

H226 Flammable liquid and vapour.

**hazard statements for health hazards**

H319 Causes serious eye irritation.

**Hazard statements for environmental hazards:**

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

**General:**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

**Special rules for supplemental label elements for certain mixtures**

EUH208 Contains . May produce an allergic reaction.

2.3 Other hazards

No data available

## SECTION 3: Composition / information on ingredients

### 3.1/3.2 Substances/Mixtures

#### Hazardous ingredients

ethanol	45 %
CAS 64-17-5	
EC 200-578-6	
INDEX 603-002-00-5	
Flam. Liq. 2, H225	
propan-2-ol	15 %
CAS 67-63-0	
EC 200-661-7	
INDEX 603-117-00-0	
Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336	
glyoxal...%	0,2 %
CAS 107-22-2	
EC 203-474-9	
INDEX 605-016-00-7	
Muta. 2, H341 / Acute Tox. 4, H332 / Eye Irrit. 2, H319 / Skin Irrit. 2, H315 / Skin Sens. 1, H317	

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citral	0,02 %
CAS 5392-40-5	
EC 226-394-6	
INDEX 605-019-00-3	
Skin Irrit. 2, H315 / Skin Sens. 1, H317	
(R)-p-mentha-1,8-diene	0,58 %
CAS 5989-27-5	
EC 227-813-5	
INDEX 601-029-00-7	
Flam. Liq. 3, H226 / Skin Irrit. 2, H315 / Skin Sens. 1, H317 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410	
Didecyldimethylammoniumchlorid	0,2 %
CAS 7173-51-5	
EC 230-525-2	
INDEX 612-131-00-6	
Acute Tox. 4, H302 / Skin Corr. 1B, H314	

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

#### Following inhalation

Provide fresh air.

#### Following skin contact

Subsequently wash again with:  
Water and soap.

#### After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water.

#### After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

No data available

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

No data available

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## SECTION 5: Firefighting measures

### Additional information

Extinguishing materials should be selected according to the surrounding area.

### 5.1 Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>). Atomized water.

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

#### Hazardous combustion products

Hydrogen chloride (HCl). Nitrogen oxides (NO<sub>x</sub>). Carbon monoxide.

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### **5.3 Advice for firefighters**

No data available

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## **SECTION 6: Accidental release measures**

### **Methods for cleaning up**

Treat the assimilated material according to the section on waste disposal.

Suitable material for diluting or neutralizing:

Water.

### **Additional information**

Eliminate leaks immediately.

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

#### **For non-emergency personnel**

#### **Personal precautions**

Remove all sources of ignition. Provide adequate ventilation. Vapours are heavier than air and will spread at floor level.

#### **6.2 Environmental precautions**

No special environmental protection measures are necessary.

#### **6.3 Methods and material for containment and cleaning up**

No data available

#### **6.4 Reference to other sections**

No data available

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## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

#### **Protective measures**

#### **Further information**

To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting self-closing lids.

#### **Measures to prevent fire**

Keep away from:

Oxidizing agents.

Product is:

Flammable. When using do not smoke.

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

#### **Requirements for storage rooms and vessels**

Keep/Store only in original container.

#### **Hints on joint storage**

#### **Storage class**

Entzündliche flüssige Stoffe.

#### **Further information on storage conditions**

#### **storage temperature**

Value 5 - 35 °C

### **7.3 Specific end use(s)**

#### **Recommendation**

Observe instructions for use.

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**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

CAS No.	Substance name	LTV	STV	remark
64-17-5	Ethanol	1920 mg/m <sup>3</sup> 1000 ppm		
67-63-0	Propan-2-ol	999 mg/m <sup>3</sup> 400 ppm	1250 mg/m <sup>3</sup> 500 ppm	Great Britain (UK) Great Britain (UK)

LTV = long-term occupational exposure limit value

STV = short-term occupational exposure limit value

source: GESTIS International Limit Values (<http://limitvalue.ifa.dguv.de/>)Monitoring and observation processes: GESTIS Analytical Methods (<http://amcaw.ifa.dguv.de/>)**8.2 Exposure controls****Personal protection equipment****General protection and hygiene measures:**

Avoid contact with skin, eye and clothing. Do not eat, drink, smoke or sneeze at the workplace.

**Eye/face protection****Suitable eye protection:**

Tightly sealed safety glasses.

**Skin protection****Hand protection:****Hand protection**

Tested protective gloves are to be worn:

**Suitable material:**

NBR (Nitrile rubber).

**Required properties:**

liquid-tight.

**Breakthrough time (maximum wearing time)** <8 h**Thickness of the glove material** 0,1 mm**Wearing time with occasional contact (splashes):** <30 min**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****Appearance****Physical state**

liquid

**Colour**

colourless

**Odour**

lemon.

parameter	Method - source - remark
pH	neutral
Melting point/freezing point	not determined
Initial boiling point and boiling range 78 °C	
Flash point (°C) 23 °C	Flash point (°C): DIN EN 22719 (10/2003): replaced by DIN EN ISO 2719)
Evaporation rate	not determined
flammability	not determined
Upper explosion limit 15 Vol-%	
lower explosion limit 2 Vol-%	
Vapour pressure	not determined
Vapour density	not determined
Relative density 0,89 g/cm <sup>3</sup> Temperature 20 °C	
Fat solubility (g/L)	not determined
Water solubility (g/L)	complete miscible
Soluble (g/L) in	not determined
Partition coefficient: n-octanol/water	not determined
Auto-ignition temperature	not determined
Decomposition temperature	not determined

## 9.2 Other information

**Freezing point** <0 °C

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3 Possibility of hazardous reactions

Ignition hazard

### 10.4 Conditions to avoid

In case of warming:

Ignition hazard.

### 10.5 Incompatible materials

No information available.

### 10.6 Hazardous decomposition products

No information available.

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity****Acute oral toxicity** >5000 mg/kg**Effective dose**

ATEmix calculated:

**Species:**

Rat.

**Exposure time:** 48 h

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**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity****Acute Daphnia toxicity** >10 mg/L**Effective dose:**

EC50:

**Exposure time:** 48 h**species:**

Daphnia magna

**12.2 Persistence and degradability**

No information available.

**12.3 Bioaccumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**12.6 Other adverse effects**

No information available.

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Waste code packaging** 070699**hazardous waste** No**Waste name**

wastes not otherwise specified

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**SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN-No.	3175	3175	3175

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.2 Proper Shipping Name	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (ETHANOL, ISOPROPANOL)	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (ETHANOL, ISOPROPANOL)	Solids containing flammable liquid, n.o.s. (ETHANOL, ISOPROPANOL)
14.3 Class(es)	4.1	4.1	4.1
14.4 Packing group	II	II	II
14.5 ENVIRONMENTALLY HAZARDOUS	No	No	No
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	not applicable	not applicable	not applicable

**Additional information - Land transport (ADR/RID)**

<b>Hazard label(s)</b>	4.1
<b>Classification code</b>	F1
<b>Limited quantity (LQ)</b>	1 kg
<b>Hazard identification number (Kemler No.)</b>	40
<b>tunnel restriction code</b>	E
<b>transport category</b>	2

**Additional information - Air transport (ICAO-TI / IATA-DGR)**

<b>Limited quantity (LQ)</b>	5
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**SECTION 15: Regulatory information**
**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
**EU legislation**
**Other regulations (EU)**

**Regulation 96/82/EC for danger control following severe accidents with dangerous substances:**  
 96/82/EG, annex I, part 2: Observe quantity limits according to R-phrases.

**Directive 2004/42/EC on the limitation of emissions of volatile organic compounds**

**Volatile organic compounds (VOC) in percentage by weight: 60 Wt %**

**15.2 Chemical Safety Assessment**

No data available

**SECTION 16: Other information**
**Recommended restrictions of use:**
**Remark:**

Do not use in household.

**Indication of changes**

update Dez 2019: Sebastian Geiger



**Key literature references and sources for data**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.