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

1.1 Product identifier

Trade name/designation GREEN&CLEAN WD

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
Department responsible for information: 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

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.

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.

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

didecyldimethylammonium chloride <=0,2 %
CAS 7173-51-5
EC 230-525-2
INDEX 612-131-00-6
Acute Tox. 4, H302 / Skin Corr. 1B, H314

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.

Following 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

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 (CO2). Atomized water.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products
Hydrogen chloride (HCl). Nitrogen oxides (NOx). Carbon monoxide.

5.3 Advice for firefighters
No data available

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

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 - 30 °C

7.3 Specific end use(s)

Recommendation
Observe instructions for use.

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/m³ 1000 ppm		Great Britain (UK)

CAS No.	Substance name	LTV	STV	remark
67-63-0	Propan-2-ol	999 mg/m³ 400 ppm	1250 mg/m³ 500 ppm	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: <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
Melting point/freezing point		not determined
Boiling point or initial boiling point and boiling range	78 °C	
flammability		not determined

		parameter	Method - source - remark
Upper explosion limit	15 Vol-%		
lower explosion limit	2 Vol-%		
Flash point (°C)	23 °C		Flash point (°C): DIN EN 22719 (10/2003: replaced by DIN EN ISO 2719)
Auto-ignition temperature			not determined
Decomposition temperature			not determined
pH			neutral
Kinematic viscosity			not determined
Water solubility			complete miscible
Soluble (g/L) in			not determined
Fat solubility			not determined
Partition coefficient: n-octanol/water			not determined
Vapour pressure			not determined
Density and/or relative density	0,89 g/cm³	Temperature 20 °C	
Relative vapour density			not determined
particle characteristics			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.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Acute oral toxicity >5000 mg/kg

Effective dose
ATEmix calculated:

Species:
Rat.

Exposure time: 48 h

11.2 Information on other hazards

No information available.

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 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Waste code product 070699
hazardous waste No

Waste name
wastes not otherwise specified

After intended use

Waste code packaging 070699
hazardous waste No

Waste name
wastes not otherwise specified

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	3175	3175	3175
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 Environmental hazards	No	No	No
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

Additional information - Land transport (ADR/RID)

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

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

Limited quantity (LQ) 5

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 weight-%

15.2 Chemical Safety Assessment
No data available

SECTION 16: Other information

Indication of changes

2022/10: Änderungen 3

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.