
SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name/designation** GREEN&CLEAN SD**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**Additional information**

The product will be applied by spraying.

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.

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.

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 (NO_x). 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

Materials to avoid

Do not store together with:

Oxidizing agents.

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
67-63-0	Propan-2-ol	999 mg/m ³ 400 ppm	1250 mg/m ³ 500 ppm	
64-17-5	Ethanol	1920 mg/m ³ 1000 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: <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

Alcohol

	parameter	Method - source - remark
	Evaporation rate	not determined
	Melting point/freezing point	not determined
	Boiling point or initial boiling point and boiling range	78 °C
	flammability	not determined
	Upper explosion limit	15 Vol-%



parameter		Method - source - remark
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
Soluble (g/L) in		not determined
Fat solubility		not determined
Water solubility		complete miscible
Partition coefficient: n-octanol/water		not determined
Vapour pressure		not determined
Vapour density		not determined
Relative density	0,89 g/cm ³	Temperature 20 °C
particle characteristics		not determined

9.2 Other information

Freezing point <0 °C

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

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 toxicological effects

Acute toxicity

Acute oral toxicity >5000 mg/kg

Effective dose

ATEmix calculated:

Species:

Rat.

Exposure time: 48 h**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.

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)



	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN-No.	1987	1987	1987
14.2 Proper Shipping Name	ALCOHOLS, N.O.S. (ETHANOL, ISOPROPANOL)	ALCOHOLS, N.O.S. (ETHANOL, ISOPROPANOL)	Alcohols, n.o.s. (ETHANOL, ISOPROPANOL)
14.3 Class(es)	3	3	3
14.4 Packing group	III	III	III
14.5 ENVIRONMENTALLY HAZARDOUS	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)	3
Classification code	F1
Limited quantity (LQ)	5 L
Hazard identification number (Kemler No.)	30
tunnel restriction code	D/E
transport category	3

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

Limited quantity (LQ)	10
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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 weight-%

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

2021/09: Änderungen Abschnitt 7, 13



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.