

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

1.1 Product identifier

Trade name/designation GREEN&CLEAN IK

INDEX no. UFI: 9410-X0YK-1006-EDH2

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

AUSTRIA-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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

health hazards

Eye Dam. 1

hazard statements for health hazards

H318 Causes serious eye damage.

health hazards

STOT SE 3

hazard statements for health hazards

H336 May cause drowsiness or dizziness.

Physical hazards

Flam. Liq. 1

hazard statements for physical hazards

H224 Extremely flammable liquid and vapour.

2.2 Label elements

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

Hazard pictograms



GHS02



GHS05



GHS07

Signal word

Danger

Hazard statements

Hazard statements for physical hazards:

H224 Extremely flammable liquid and vapour.

hazard statements for health hazards

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

Precautionary statements

General:

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

P102 Keep out of reach of children.

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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.

P310 Immediately call a POISON CENTER/doctor/.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to .

Product identifiers

Propan-2-ol

Propan-1-ol

2-Butanol

2.3 Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.1/3.2 Substances/Mixtures

Hazardous ingredients

propan-2-ol 25 %

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

propan-1-ol 30 %

CAS 71-23-8

EC 200-746-9

INDEX 603-003-00-0

Flam. Liq. 2, H225 / Eye Dam. 1, H318 / STOT SE 3, H336

butan-2-ol 10 %

CAS 78-92-2

EC 201-158-5

INDEX 603-127-00-5

Flam. Liq. 3, H226 / Eye Irrit. 2, H319 / STOT SE 3, H335 / STOT SE 3, H336

SECTION 4: First aid measures

4.1 Description of first aid measures

Following inhalation

In case of inhaling spray mists, consult a doctor immediately and show him box or label.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap.

After eye contact

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist. Protect the eye that is not injured.

After ingestion

Do not induce vomiting. Rinse mouth immediately and drink large quantities of water. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

Self-protection of the first aider

First aid assistant: Pay attention to self-protection!

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

Let off heat to prevent increase in pressure. Extinguishing materials should be selected according to the surrounding area. Move undamaged containers from immediate hazard area if it can be done safely. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen.

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam. Water spray. Dry extinguishing powder. Carbon dioxide (CO₂).

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide. Carbon dioxide (CO₂).

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures
Methods for cleaning up

Water.

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
Measures to prevent fire

Highly flammable. Keep away from sources of ignition - No smoking.

Measures to prevent aerosol and dust generation

Use only in well-ventilated areas.

Environmental precautions

Refer to chapter 8.

7.2 Conditions for safe storage, including any incompatibilities
Hints on joint storage
Storage class

Druckgaspackungen (Aerosolpackungen).

Further information on storage conditions
storage temperature

Value 5 - 50 °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
71-23-8	Propan-1-ol	500 mg/m ³ 200 ppm	625 mg/m ³ 250 ppm	
				Great Britain (UK)
67-63-0	Propan-2-ol	999 mg/m ³ 400 ppm	1250 mg/m ³ 500 ppm	
				Great Britain (UK)

CAS No.	Substance name	LTV	STV	remark
78-92-2	Butan-2-ol	308 mg/m ³ 100 ppm	462 mg/m ³ 150 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:

Do not eat, drink, smoke or sneeze at the workplace. Avoid contact with skin, eye and clothing. Wash contaminated clothing prior to re-use.

Eye/face protection

Suitable eye protection:

Framed glasses.

Skin protection

Suitable gloves type:

Single-use gloves.

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

compressed gas

Colour

colourless

Odour

like:

Alcohol

parameter	Method - source - remark
pH	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point (°C)	12 °C
Evaporation rate	not determined
flammability	not determined
Upper explosion limit	17,5 Vol-%
lower explosion limit	1,7 Vol-%
Vapour pressure	not determined

parameter	Method - source - remark
Vapour density	not determined
Relative density	not determined
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**Solvent content (%)**

Value 65 %

SECTION 10: Stability and reactivity**10.1 Reactivity**

No information available.

10.2 Chemical stability

No information available.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

In case of warming:

Danger of bursting container.

In case of shock or pressure:

Danger of bursting container.

In cases of exceeding the storage temperature:

Danger of bursting container.

10.5 Incompatible materials**Materials to avoid**

Gas/vapours, flammable.

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

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

No information available.

12.6 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Product

Waste disposal according to official state regulations.

Waste code packaging 150101

hazardous waste No

Waste name

paper and cardboard packaging

Waste code product 150104

hazardous waste No

Waste name

metallic packaging

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN-No.	1950	1950	1950
14.2 Proper Shipping Name	AEROSOLS (n-PROPANOL, ISOPROPANOL)	AEROSOLS (n-PROPANOL, ISOPROPANOL)	Aerosols, flammable (n-PROPANOL, ISOPROPANOL)
14.3 Class(es)	2	2.1	2.1

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.4 Packing group			
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)

Hazard label(s)	2.1
Classification code	5F
Limited quantity (LQ)	1 L
tunnel restriction code	D
transport category	2

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

Limited quantity (LQ)	30
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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: 65 Wt %

15.2 Chemical Safety Assessment

No data available

SECTION 16: Other information

Recommended restrictions of use:

Remark:

Do not use in household. Do not use for inflating balloons.

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.