

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

WHO DISINFECTANT F1

Version 1.3

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

1.1. Product identifier # DI-5010, # DI-5020, # DI-5030

Trade name : WHO DISINFECTANT F1

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

Use of the Substance/Mixture : disinfectant

Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : Green Clean GmbH
 Trimmelkammer Strasse16
 AT 5120 St.Pantaleon
 Telephone : +43 (0) 6277 - 62304
 Telefax : +43 (0) 6277 - 62304-10
 E-mail address : office@green-clean.at
 Responsible/issuing person : Abteilung Produktsicherheit

1.4. Emergency telephone number

Emergency telephone number : Vergiftungsinformationszentrale: +43 (1) 406 43 43 (0-24 Uhr)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Flammable liquids	Category 2	---	H225
Eye irritation	Category 2	---	H319

For the full text of the H-Statements mentioned in this Section, see Section 16.



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Most important adverse effects

Human Health	:	See section 11 for toxicological information.
Physical and chemical hazards	:	See section 9/10 for physicochemical information.
Potential environmental effects	:	See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols	:	 
Signal word	:	Danger
Hazard statements	:	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.
Precautionary statements	:	
Prevention	:	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P273 Avoid release to the environment.
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. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
Storage	:	P403 + P235 Store in a well-ventilated place. Keep cool.

Other labelling information:

Further information	:	Keep out of the reach of children. If swallowed, seek medical advice immediately and show this container or label. Dispose of this material and its container to hazardous or special waste collection point.
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2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical nature : Aqueous mixture of substances listed below with non hazardous additions and/or with additions in non hazardous concentrations.

Weight percent		Classification (REGULATION (EC) No 1272/2008)	
Hazardous components	Amount [%]	Hazard class / Hazard category	Hazard statements
ethanol			
Index-No. : 603-002-00-5	70 - 80	Flam. Liq.2	H225
CAS-No. : 64-17-5		Eye Irrit.2	H319
EC-No. : 200-578-6			
EU REACH- : 01-2119457610-43-xxxx			
Reg. No.			
hydrogen peroxide solution			
Index-No. : 008-003-00-9	<= 0,5	Ox. Liq.1	H271
CAS-No. : 7722-84-1		Acute Tox.4	H332
EC-No. : 231-765-0		Acute Tox.4	H302
EU REACH- : 01-2119485845-22-xxxx		Skin Corr.1A	H314
Reg. No.		Eye Dam.1	H318
		STOT SE3	H335
		Aquatic Chronic3	H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

Non-hazardous component

Chemical name	Identification Number	Amount [%]
Glycerol	CAS-No. : 56-81-5 EC-No. : 200-289-5	<= 3

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice : No special precautions required.

If inhaled : Remove to fresh air. If symptoms persist, call a physician. If

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	unconscious place in recovery position.
In case of skin contact	: Rinse with water. If symptoms call a physician.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position. Call a physician immediately.

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

Symptoms	: Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. See Section 11 for more detailed information on health effects and symptoms.
Effects	: See Section 11 for more detailed information on health effects and symptoms.

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

Treatment	: Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	: High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting	: The vapour may be invisible, heavier than air and spread along ground. Vapours may form explosive mixtures with air. Flash back possible over considerable distance. The product is insoluble and floats on water.
Hazardous combustion products	: Carbon monoxide, Carbon dioxide (CO ₂)

5.3. Advice for firefighters

Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.
Further advice	: Cool closed containers exposed to fire with water spray. Heating will cause a pressure rise - with risk of bursting. Collect contaminated fire extinguishing water

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separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Keep away from heat and sources of ignition. Use personal protective equipment. Keep away unprotected persons. Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours or spray mist.

6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and 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

See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Keep container tightly closed. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep in an area equipped with solvent resistant flooring.

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Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking. The vapour may be invisible, heavier than air and spread along ground. Vapours may form explosive mixtures with air. Take measures to prevent the build up of electrostatic charge. Use only in an area containing explosion proof equipment.

Further information on storage conditions : Keep tightly closed in a dry and cool place. Keep away from direct sunlight. Keep in a well-ventilated place.

Advice on common storage : Incompatible with oxidizing agents. Do not store together with oxidizing and self-igniting products. Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component:	ethanol	CAS-No. 64-17-5
Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)		

DNEL		
Workers, Long-term - systemic effects, Inhalation	:	950 mg/m ³
DNEL		
Workers, Acute - local effects, Inhalation	:	1900 mg/m ³
DNEL		
Workers, Long-term - systemic effects, Skin contact	:	343 mg/kg bw/day
DNEL		
Consumers, Long-term - systemic effects, Inhalation	:	114 mg/m ³
DNEL		
Consumers, Acute - local effects, Inhalation	:	950 mg/m ³
DNEL		
Consumers, Long-term - systemic effects, Skin contact	:	206 mg/kg bw/day
DNEL		
Consumers, Long-term - systemic effects, Ingestion	:	87 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Fresh water : 0,96 mg/l

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Marine water	: 0,79 mg/l
Intermittent releases	: 2,75 mg/l
Sewage treatment plant (STP)	: 580 mg/l
Fresh water sediment	: 3,6 mg/kg d.w.
Marine sediment	: 2,9 mg/kg d.w.
Soil	: 0,63 mg/kg d.w.
Secondary poisoning	: 380 mg/kg food

Other Occupational Exposure Limit Values

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended, MAK Ceiling Limit Value:

2.000 ppm, 3.800 mg/m³, (3x60 minutes/shift)

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended, Maximum allowable concentration:

1.000 ppm, 1.900 mg/m³

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice : Required, if exposure limit is exceeded (e.g. OEL).
When aerosol or mist is formed use suitable respiratory protection.
Respiratory protection complying with EN 141.
Recommended Filter type:A
Combination filter: A-P2

Hand protection

Advice : No special precautions required.
Applies to handling for longer periods or of large amounts
Choose right chemical protection as:

Material : butyl-rubber
Break through time : >= 8 h
Glove thickness : 0,5 mm

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Material : Fluorinated rubber
Break through time : ≥ 8 h
Glove thickness : 0,4 mm

Material : polychloroprene
Break through time : ≥ 2 h
Glove thickness : 0,5 mm

Eye protection

Advice : Safety goggles

Skin and body protection

Advice : Solvent resistant protective clothing

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

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

Form : liquid

Colour : colourless
clear

Odour : alcohol-like

Odour Threshold : no data available

pH : ca. 6,63

Melting point/range : < 0 °C

Boiling point/boiling range : > 78 °C

Flash point : ca. 17,5 °C

Evaporation rate : no data available

Flammability (solid, gas) : Not applicable

Upper explosion limit : 27,7 %(V) Ethanol

Lower explosion limit : 3,1 %(V) Ethanol

Vapour pressure : ca. 60 hPa (20 °C)

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Relative vapour density	:	no data available
Density	:	ca. 0,859 g/cm ³ (20 °C)
Water solubility	:	miscible
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	ca. 425 °C
Thermal decomposition	:	no data available
Viscosity, dynamic	:	no data available
Explosivity	:	Formation of explosive air/vapour mixtures is possible.
Oxidizing properties	:	not oxidising

9.2. Other information

No further information available.

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

Advice : No decomposition if stored and applied as directed.

10.2. Chemical stability

Advice : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : No information available.

10.4. Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5. Incompatible materials

Materials to avoid : Strong oxidizing agents, Alkali metals, Alkaline earth metals, Nitric acid, sulphuric acid, peroxides, for example hydrogen peroxide

10.6. Hazardous decomposition products

Hazardous decomposition products : Under fire conditions: Carbon oxides

SECTION 11: Toxicological information

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11.1. Information on toxicological effects

Data for the product	
Acute toxicity	
Oral	
Not classified based on the calculation method according to CLP regulation.	
Inhalation	
Not classified based on the calculation method according to CLP regulation.	
Dermal	
Not classified based on the calculation method according to CLP regulation.	
Irritation	
Skin	
Result	: No skin irritation
Eyes	
Result	: Causes serious eye irritation.
Sensitisation	
Result	: No sensitizing effect known.
CMR effects	
CMR Properties	
Carcinogenicity	: Based on available data, the classification criteria are not met.
Mutagenicity	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity	
Single exposure	
Remarks	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
Repeated exposure	
Remarks	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Other toxic properties	
Repeated dose toxicity	

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no data available

Aspiration hazard

No aspiration toxicity classification,

SECTION 12: Ecological information

12.1. Toxicity

12.2. Persistence and degradability

Data for the product

Persistence and degradability

Persistence

Result : The product is insoluble and floats on water.
The product evaporates easily from water surface.
Result :

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

Data for the product

Results of PBT and vPvB assessment

Result : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Other adverse effects

Data for the product

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.
- Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations. Do not burn, or use a cutting torch on, the empty drum. Risk of explosion.
- European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.
- Waste Key Number : 59305

SECTION 14: Transport information

14.1. UN number

1170

14.2. UN proper shipping name

ADR : ETHANOL SOLUTION
RID : ETHANOL SOLUTION
IMDG : ETHANOL SOLUTION

14.3. Transport hazard class(es)

ADR-Class : 3
 (Labels; Classification Code; Hazard Identification Number; Tunnel restriction code) 3; F1; 33; (D/E)

RID-Class : 3
 (Labels; Classification Code; Hazard Identification Number) 3; F1; 33

IMDG-Class : 3
 (Labels; EmS) 3; F-E, S-D

14.4. Packaging group

ADR : II
 RID : II
 IMDG : II

14.5. Environmental hazards

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Environmentally hazardous according to ADR : no
 Environmentally hazardous according to RID : no
 Marine Pollutant according to IMDG-Code : no

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Data for the product

EU. REACH Candidate : ; Not listed
 List of Substances of
 Very High Concern for
 Authorization (SVHC)

EU. REACH Annex XIV, : ; Not listed;
 Substances Subject to
 Authorization

EU. Directive : Lower-tier requirements: 5.000 tonnes; Part 1: Categories of
 2012/18/EU (SEVESO dangerous substances; P5c: Flammable liquids, Categories 2
 III) Annex I or 3 not covered by P5a and P5b
 Upper-tier requirements: 50.000 tonnes; Part 1: Categories of
 dangerous substances; P5c: Flammable liquids, Categories 2
 or 3 not covered by P5a and P5b

Regulation about : B I: Flash point < 21 °C; water soluble at 15 °C
 combustible liquids
 (VbF).

Other regulations : Austria rule BGBl.I 53/1997 List of Chem. materials is in
 compliance with EU rule
 Employment restrictions under workers actresses Protection
 Act are observed.
 The VOC-Plants-Regulation BGBl. 301/2002 has to be
 considered.

15.2. Chemical safety assessment

no data available

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SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H225	Highly flammable liquid and vapour.
H271	May cause fire or explosion; strong oxidizer.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Abbreviations and Acronyms

BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
PBT	persistent, bioaccumulative and toxic
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
PNEC	predicted no-effect concentration
STOT	specific target organ toxicity
SVHC	substance of very high concern
UVCB	substance of unknown or variable composition, complex reaction

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vPvB	products or biological materials
Further information	very persistent and very bioaccumulative
Key literature references and sources for data	: Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.
Methods used for product classification	: The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.
Hints for trainings	: The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.
Other information	: The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

|| Indicates updated section.