

According to Regulation (EC) No 1907/2006

Kleen Freezer Cleaner

Version number: 3.1
Issued: 2026-02-09
Replaces SDS: 2021-08-25



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

1.1. Product identifier

Trade name

Kleen Freezer Cleaner

UFI code

D1FG-EQQ1-5R0M-96C9

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

Relevant identified uses

Freezer room cleaner for professional users.

Not suitable for use in

All other uses are discouraged.

1.3. Details of the supplier of the safety data sheet

Supplier

KLEEN PURGATIS GmbH

Address

Dieselstraße 10
32120 Hiddenhausen
Germany

Telephone

+49 (0) 5223 9970-40

Email

info@kleen-purgatis.de

Web site

www.kleenpurgatis.de

Contact person

Regulatory Affairs

Email

info@kleen-purgatis.de

1.4. Emergency telephone number

+49 (0)551 - 19240 (GIZ-Nord)

Available outside office hours

Yes

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Flammable liquids, hazard category 3

Hazard statements

H226

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Warning

Hazard statements

H226 Flammable liquid and vapour.

Precautionary statements

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

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

P243 Take action to prevent static discharges.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

2.3. Other hazards

This mixture does not contain any substances that are classified as PBT or vPvB according to Article 57 / Annex XIII of the REACH regulation.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-pharse M factor acute M factor chronic	Specific concentra- tion limits ATE	Note
ethanol	64-17-5 200-578-6 01-2119457610-43-xxxx 603-002-00-5	20 - <50%	Flam. Liq. 2	H225 - -		-

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Description of first aid measures

First responders: Pay attention to self-protection.

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Consult a physician if necessary.

Skin contact

In case of contact, immediately flush skin with plenty of water.

Eye contact

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

Ingestion

Rinse mouth. Drink water. If symptoms persist, call a physician.

Information for doctors

Treat symptomatically.

Show this safety data sheet to the doctor in attendance.

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

Symptoms of poisoning may only appear several hours later. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Inhalation

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

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Skin contact

Causes skin irritation. Has a degreasing effect on the skin.

Eye contact

Eye irritation, cloudy / blurred field of vision, excessive lachrymation.

Ingestion

There may be confusion, aggressive behaviour, slurred speech and staggering walk. Nausea, vomiting, gastrointestinal discomfort.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray, dry powder, foam, carbon dioxide (CO₂).

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Formation of dangerous gases possible in the event of fire.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

In the event of fire, wear self contained breathing apparatus.

Other

Other

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas.

Evacuate unaffected personnel from the spill area.

Remove all sources of ignition. Do not smoke.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material 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).

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6.4. Reference to other sections

For information on storage and handling see section 7.
For information on exposure and personal protective equipment, see Section 8.
For information on incompatible materials, see Section 10.
For information on disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Use with adequate ventilation. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

General hygiene

When using, do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in a place accessible by authorized persons only.

Storage class according to TRGS 510: 3 (flammable liquids)

Keep in a cool, well-ventilated place.

7.3. Specific end use(s)

GISCODE: GU55

See section 1.2: Freezer room cleaner

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
ethanol (64-17-5/200-578-6)	DNEL	Chronic (long term) Inhalation	950 mg/m ³	Workers	Systemic
ethanol (64-17-5/200-578-6)	DNEL	Acute (short term) Inhalation	1900 mg/m ³	Workers	Local
ethanol (64-17-5/200-578-6)	DNEL	Chronic (long term) Dermal	343 mg/kg	Workers	Systemic

PNEC/PEC

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Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
ethanol (64-17-5/200-578-6)	PNEC	Freshwater	960 µg/l
ethanol (64-17-5/200-578-6)	PNEC	Marine water	790 µg/l
ethanol (64-17-5/200-578-6)	PNEC	Sewage Treatment Plant	580 mg/l
ethanol (64-17-5/200-578-6)	PNEC	Sediment (freshwater)	3.6 mg/kg
ethanol (64-17-5/200-578-6)	PNEC	Sediment (marine water)	2.9 mg/kg
ethanol (64-17-5/200-578-6)	PNEC	Soil	0.63 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Eye / face protection

Chemical-resistant safety glasses with side protection conforming to EN166.

Hand protection

Protective gloves complying with EN 374. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

Other skin protection

This type of personal protective equipment is not necessary under normal and foreseeable use of the product.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Thermal hazards

Not applicable.

Environmental exposure controls

No special precautions required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

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Colour

Colourless

Odour

alcoholic

Odour threshold

Not determined for the mixture.

Melting point / freezing point

Not determined for the mixture.

Boiling point or initial boiling point and boiling range

Not determined for the mixture.

Flammability

Not determined for the mixture.

Lower and upper explosion limit

Not determined for the mixture.

Flash point

24 °C

Auto-ignition temperature

Not determined for the mixture.

Decomposition temperature

Not determined for the mixture.

pH

9 - 9.5

Kinematic viscosity

Not determined for the mixture.

Viscosity, dynamic

Not determined for the mixture.

Solubility

Water soluble

Water solubility

soluble

Partition coefficient n-octanol/water

Not determined for the mixture.

Vapour pressure

Not determined for the mixture.

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Density and/or relative density

0.94 g/cm³

Method

20°C

Relative vapour density

Not determined for the mixture.

Evaporation Rate

Not determined for the mixture.

Explosive properties

Formation of explosive air/steam mixtures is possible. Product is not explosive.

Oxidising properties

Not determined for the mixture.

VOC %

40 %

Particle characteristics

No data available

9.2. Other information

This product / mixture does not contain any nanomaterials or nanoforms as defined in Regulation (EC) 1907/2006.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at normal conditions

10.2. Chemical stability

The product is chemically stable.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

Keep away from heat and sources of ignition.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

No hazardous decomposition products are known.

For information on combustion products, see Section 5.

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SECTION 11: Toxicological information

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

Toxicology data for the components

Acute toxicity

Based on the available data, the classification criteria are not met.

Product / Sub- stance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline
ethanol 64-17-5 / 200- 578-6	LD50	10.470 mg/kg	Oral	-	rat	OECD 401
ethanol 64-17-5 / 200- 578-6	LD50	> 2.000 mg/kg	Dermal	-	rabbit	OECD 402
ethanol 64-17-5 / 200- 578-6	LC50	> 50 mg/l	Inhalation	4 h	rat	OECD 403

Skin corrosion/irritation

Based on the available data, the classification criteria are not met.

Serious eye damage/irritation

Based on the available data, the classification criteria are not met.

Respiratory or skin sensitisation

Based on the available data, the classification criteria are not met.

Germ cell mutagenicity

Based on the available data, the classification criteria are not met.

Carcinogenicity

Based on the available data, the classification criteria are not met.

Repeated dose toxicity

Based on the available data, the classification criteria are not met.

Reproductive toxicity

Based on the available data, the classification criteria are not met.

STOT-single exposure

Based on the available data, the classification criteria are not met.

STOT-repeated exposure

Based on the available data, the classification criteria are not met.

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Aspiration hazard

Based on the available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties in terms of regulations (EC) 1907/2006 and (EU) 2018/605 and the delegated regulation (EU) 2017/2100.

SECTION 12: Ecological information

12.1. Toxicity

Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
ethanol 64-17-5 / 200-578-6	LC50	8.140 mg/l	48 h	Leuciscus idus

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
ethanol 64-17-5 / 200-578-6	EC50	> 100 mg/l	Static test	Chlorella pyrenoidosa	OECD 201
ethanol 64-17-5 / 200-578-6	EC50	275 mg/l	72 h	Chlorella vulgaris	OECD 201

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
ethanol 64-17-5 / 200-578-6	EC50	> 10.000 mg/l	48 h	Daphnia magna

12.2. Persistence and degradability

No information is available for this item.

12.3. Bioaccumulative potential

No information is available for this item.

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12.4. Mobility in soil

Mobility

No information is available for this item.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

This mixture does not contain any substances that are classified as PBT or vPvB according to Article 57 / Annex XIII of the REACH regulation.

12.6. Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties in terms of regulations (EC) 1907/2006 and (EU) 2018/605 and the delegated regulation (EU) 2017/2100.

12.7. Other adverse effects

No information available

Other

This product / mixture does not contain any substances within the meaning of Regulation (EC) No. 1005/2009 that deplete the ozone layer.

German Water Class

WGK1 - slightly water endangering

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Dispose of as hazardous waste in compliance with local and national regulations.

Packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging : Dispose of as unused product.

Waste code	Waste description
20 01 29*	detergents containing hazardous substances

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

SECTION 14: Transport information

14.1. UN number

1170

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

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IMDG proper shipping name

ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3. Transport hazard class(es)

Label

ADR/RID/ADN



3

ADR / RID Class

3

ADR / RID Classification code

F1

ADR / RID hazard identification number

30

IMDG Class

3

IATA Class

3

ADN Class

3

ADN Class Code

F1

14.4. Packing group

III

14.5. Environmental hazards

Environmental hazards

No

IMDG Marine Pollutant

No

14.6. Special precautions for user

Special precautions for user

The usual precautionary measures when handling chemicals must be observed.

IMDG EmS

F-E, S-D

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14.7. Maritime transport in bulk according to IMO instruments

Not applicable

Other

Additional information ADR-RID

LQ: 5L

EQ: E1

Transport category (tunnel restriction code): 3 (D/E)

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 648/2004 (detergents)

Ingredients according to Annex VII: not applicable

Regulation (EC) No. 1272/2008 (CLP)

EU Regulation (EC) No. 1907/2006 (REACH)

Substances subject to authorization according to Annex XIV: not applicable

Substance restrictions according to Annex XVII: not applicable

Substances on the REACH candidate list (SVHC): not applicable

Regulation (EU) No. 528/2012 (BPR)

Active ingredients: not applicable

Regulation (EU) 2019/1148 (explosives)

Restricted raw material according to Annex I: not applicable

Notifiable raw materials according to Annex II: not applicable

Directive 2011/65 / EU (ROHS 2)

Substance restrictions according to Annex II: not applicable

Regulation (EU) 2019/1021 (POP)

Persistent organic pollutants: not applicable

Directive 2012/18/EU (Seveso III)

Seveso hazard category: P5c

National regulations

In addition, comply with all national and local regulations for the handling of chemicals.

Other regulations, limitations and legal regulations

Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment

The mixture has not been subjected to a safety assessment.

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SECTION 16: Other information

Changes to previous revision

General update without changes.

Abbreviations

ADN - European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
 ADR - The European Agreement concerning the International Carriage of Dangerous Goods by Road
 ATE - Acute Toxicity Estimate
 BCF - Bioconcentration Factor
 CAS - Chemical Abstracts Service
 CE - Conformité Européenne (European conformity)
 CLP - Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 CSA - Chemical Safety Assessment
 CSR - Chemical Safety Report
 DMEL - Derived Minimal Effect Level
 DNEL - Derived No Effect Level
 EINECS - European Inventory of Existing Commercial chemical Substances
 ES - Exposure Scenario
 EUH statement - CLP-specific Hazard statement
 EuPCS - European Product Categorisation System
 EWC - European Waste Catalogue
 GHS - Globally Harmonized System of Classification and Labelling of Chemicals
 GWP - Global warming potential
 IARC - International Agency for Research on Cancer (IARC)
 IATA - International Air Transport Association
 IBC - Intermediate Bulk Container
 IMDG - International Maritime Dangerous Goods
 LogPow - logarithm of the octanol/water partition coefficient
 MARPOL - International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" - marine pollution)
 OECD - Organisation for Economic Co-operation and Development
 PBT - Persistent, Bioaccumulative and Toxic
 PNEC - Predicted No Effect Concentration
 RID - The Regulations concerning the International Carriage of Dangerous Goods by Rail
 RRN - REACH Registration Number
 SCL - A specific concentration limit
 STOT-RE - Specific Target Organ Toxicity - Repeated Exposure
 STOT-SE - Specific Target Organ Toxicity - Single Exposure
 SVHC - Substances of Very High Concern
 TWA - Time weighted average
 UN - United Nations
 UVBC - Unknown or variable composition, complex reaction products or of biological materials
 VOC - Volatile Organic Compound
 vPvB - Very Persistent and Very Bioaccumulative

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References to key literature and data sources

Safety data sheets from raw material suppliers

Evaluation methods for classification

Classification for mixtures and used evaluation method according to Article 9 of regulation (EC) 1272/2008 [CLP]:

Physical hazards: Flash point

Phrase meaning

Flam. Liq. 3 - Flammable liquids, hazard category 3

Flam. Liq. 2 - Flammable liquids, hazard category 2

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

Additional information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878.

Manufacturer's notes

Legal disclaimer: The above information is believed to be correct. This company shall not be held liable for any damage resulting from handling or from contact with the above product.