



This safety data sheet is prepared in accordance with EU directive 91/155/EC amended by Directive 2001/58/EC



SAFETY DATA SHEET

Hygienic fridge cleaner

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Product name : Hygienic fridge cleaner
Product use : Is a fast-drying, fresh spray cleaner that cleans your fridge quickly and hygienically without leaving stripes.

Company/undertaking identification

Manufacturer : HG International b.v. **Telephone No.:** : +31 (0)36 54 94 700
Address : Damsluisweg 70 **Fax** : +31 (0)36 54 94 744
1332 EJ Almere **Internet:** : www.hginternational.com
Country : Netherlands
Importer : HG UK
Address : Unit 11 Grange Way Business Park Whitehall Road Industrial Estate
Uk Colchester Essex CO2 8HF
Telephone No.: : +44.1206.795.200
Fax : +44.1206.795.201
Country : United Kingdom (UK)

2. Composition/information on ingredients

Substance/preparation : Preparation

Ingredient name	CAS number	EC Number	%	Classification
United Kingdom (UK) Ethanol	64-17-5	200-578-6	30 - 100	F; 11

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting in this section, in accordance with EU regulations or National regulations.

* Occupational Exposure Limit(s), if available, are listed in Section 8

3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : 10

Physical/chemical hazards : Flammable.

See section 11 for more detailed information on health effects and symptoms.

4. First aid measures

First aid measures

Inhalation : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.
Ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
Skin Contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention.

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- Eye contact** : In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Get medical attention if irritation occurs.
- Notes to physician** : Not available.
- Specific treatments** : Not available.
- See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

- Extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical or CO₂ extinguisher or spray.
- Special exposure hazards** : Flammable liquid and vapour. Vapour may cause flash fire. Vapours may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Not available.
- Hazardous thermal decomposition products** : These products are carbon oxides (CO, CO₂).
- Special protective equipment for fire-fighters** : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Remark** : No additional remark.

6. Accidental release measures

- Personal Precautions** : Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Do not touch or walk through spilled material.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

- Handling** : Keep container closed. Use only with adequate ventilation. Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.
- Storage** : Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).
- Packaging materials**
- Recommended** : Use original container.
- Specific uses** : Not available.

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8. Exposure controls/personal protection

Exposure limit values :

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
<u>United Kingdom (UK)</u>	
Ethanol	EH40-WEL (United Kingdom (UK), 1/2005). TWA: 1920 mg/m ³ 8 hour(s). Form: All forms TWA: 1000 ppm 8 hour(s). Form: All forms

Exposure controls

- Occupational exposure controls** : Not applicable
- Respiratory protection** : Recommended:Wear appropriate respirator when ventilation is inadequate.
- Hand protection** : Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
>8 hour(s) (breakthrough time): butyl rubber
- Eye protection** : Recommended:safety glasses with side shields
- Skin protection** : Body: Recommended:Work uniform or laboratory coat.

9. Physical and chemical properties

General information

- Appearance**
- Physical state** : Liquid.
- Colour** : Clear. Colourless.
- Odour** : Lemon-like.

Important health, safety and environmental information

- pH** : 9 (Conc. (% w/w): 100) [Basic.]
- Melting point** : May start to solidify at 0°C (32°F) based on data for: Water. Weighted average: -43.17°C (-45.7°F)
- Boiling point** : The lowest known value is 64.7°C (148.5°F) (Methanol). Weighted average: 91.57°C (196.8°F)
- Flash point** : Closed cup: 28°C (82.4°F). (Pensky-Martens.)
- Flammability (solid, gas)** : Not applicable.
- Explosive properties** : Not available.
- Oxidising properties** : Not available.
- Relative density** : 0.942 g/ml (20°C / 68°F)
- Solubility** : Miscible in water.
- Evaporation rate (butyl acetate = 1)** : The highest known value is 2.1 (Methanol) Weighted average: 1.72compared to Butyl acetate.

Other information

- Auto-ignition temperature** : The lowest known value is 370°C (698°F) (Ethanol).

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10. Stability and reactivity

- Stability** : The product is stable.
- Conditions to Avoid** : Keep away from heat, sparks and flame. Keep away from sources of ignition. Stable under recommended storage and handling conditions (see section 7).
- Materials to avoid** : Slightly reactive to reactive with acids .
- Hazardous Decomposition Products** : These products are carbon oxides (CO, CO₂).

11. Toxicological information

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin Contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Ethanol	LD50	7060 mg/kg	Oral	Rat
	LD50	3450 mg/kg	Oral	Mouse
	LD50	6300 mg/kg	Oral	Rabbit
	LD50	15.8 mg/kg	Dermal	Rabbit
	LDLo	1400 mg/kg	Oral	human
	LDLo	5500 mg/kg	Oral	Dog
	LC50	64 (4 hour(s))	Inhalation	Rat

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin** : No known significant effects or critical hazards.
- Target organs** : Contains material which causes damage to the following organs: blood, the reproductive system, liver, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

- Other adverse effects** : Not available.

12. Ecological information

Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Ethanol	Daphnia magna (EC50)	48 hour(s)	2 mg/l
	Daphnia magna (EC50)	48 hour(s)	9.3 mg/l
	Daphnia magna (EC50)	48 hour(s)	>100 mg/l
	Pimephales promelas (LC50)	96 hour(s)	>100 mg/l
	Daphnia magna (LC50)	96 hour(s)	>100 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	13000 mg/l

No known significant effects or critical hazards.

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Other adverse effects

13. Disposal considerations

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
- Waste classification** : Not applicable.
- Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
ADR/RID Class	1993	UN 1993, "dangerous goods in limited quantities of class 3", III, ADR	3	III		Hazard identification number 30 Reportable quantity 45 Remarks Dangerous goods in limited quantities
ADN Class	1993	UN 1993, "dangerous goods in limited quantities of class 3", III, ADN	3	III		RQ (Reportable quantity) ADN 45 Remarks Dangerous goods in limited quantities
IMDG Class	1993	"dangerous goods in limited quantities of class 3" UN 1993, PG III	3	III		Emergency schedules (EmS) F-E, S-E Reportable quantity 30 Remarks Dangerous goods in limited quantities
IATA-DGR Class	1993	"dangerous goods in limited quantities of class 3" UN 1993, PG III	3	III		Remarks Dangerous goods in limited quantities

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15. Regulatory information

EU Regulations

- Risk Phrases** : R10- Flammable.
- Safety Phrases** : S2- Keep out of the reach of children.
S43- In case of fire, use sand , powder or CO₂.
S46- If swallowed, seek medical advice immediately and show this container or label.
- Other EU regulations** : Not available.
- Product use** : Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use.
- Consumer applications.
- EC Statistical classification (Tariff Code)** : 32089091
- Ingredients identification information** : less than 5%: non-ionic surfactants;perfumes.

16. Other information

Full text of R phrases referred to in sections 2 and 3 - United Kingdom (UK) : R11- Highly flammable.

Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK) : F - Highly flammable

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Verified by T. Rutgers.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.