

SAFETY DATA SHEET

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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.

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

Ingredient name

United Kingdom (UK)

Ethanol

Occupational exposure limits

EH40-OES (United Kingdom (UK), 2002). Notes:

TWA: 1920 mg/m³ 8 hour(s).

TWA: 1000 ppm 8 hour(s).

Exposure controls

Occupational exposure controls

: No special ventilation requirements.

Respiratory protection

: A respirator is not needed under normal and intended conditions of product use.

Hand protection

: Butyl rubber gloves. Permeation time >= 8 hours: (5 mm)

Eye protection

: safety glasses with side shields

Skin protection

: Work uniform or laboratory coat.

9. Physical and chemical properties

General information

Appearance

Physical state

: Liquid.

Colour

: Clear. , Colourless.

Odour

: Fragrance-like.

Important health, safety and environmental information

pH

: 9.8 (Conc. (% w/w): 100) [Basic.]

Melting point

: May start to solidify at 0°C (32°F) based on data for: Water. Weighted average: -21.98°C (-7.6°F)

Boiling point

: The lowest known value is 78°C (172.4°F) (Ethanol). Weighted average: 95.87°C (204.6°F)

Flash point

: Closed cup: 32°C (89.6°F). (Pensky-Martens.) Open cup: 31°C (87.8°F) (Cleveland.).

Flammability (solid, gas)

: Not applicable.

Explosive properties

: Not available.

Explosion Limits

: The greatest known range is Lower: 3.4% Upper: 19% (Ethanol)

Oxidising properties

: Not available.

Relative density

: 0.971g/cm³ (20°C / 68°F)

Solubility

: Easily soluble in cold water, hot water, diethyl ether, acetone.

Evaporation rate (butyl acetate = 1)

: 1.7 (Ethanol) compared 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** : Stable under recommended storage and handling conditions (see section 7). Keep away from heat, sparks and flame. Keep away from heat, sparks and flame.
- 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, 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.

Other adverse effects

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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 (Ethanol)	3	III		Hazard identification number 30 Reportable quantity 45 Remarks Limited quantity for upto 5 litre inner packing
ADN Class	1993	UN 1993, "dangerous goods in limited quantities of class 3", III, ADN (Ethanol)	3	III		RQ (Reportable quantity) ADN 45 Remarks Limited quantity for upto 5 litre inner packing
IMDG Class	1993	"dangerous goods in limited quantities of class 3" UN 1993, (Ethanol)	3	III		Emergency schedules (EmS) F-E, S-E Reportable quantity 30 Remarks Limited quantity for upto 5 litre inner packing
IATA-DGR Class	1993	"dangerous goods in limited quantities of class 3" UN 1993, (Ethanol)	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 water.
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%: anionic surfactants, ;perfumes:Limonene.

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

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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.