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1. Product

1.1. Product identifier:

Product Name: Liquid

2. Hazards Identification

2.1. Classification of the substance or mixture



GHS02;FLAMMABLE

H225 Highly flammable liquid and vapour

2.2 Label elements



GHS02;FLAMMABLE

HAZARD STATEMENTS:

H225 Highly flammable liquid and vapour

PRECAUTIONARY STATEMENTS:

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking

P241 Use explosion-proof electrical/ventilating/lightning equipment

P243 Take precautionary measures against static discharge

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

P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Additional information: EUH066 Repeated exposure may cause skin dryness or cracking.

3. Composition / Information on Ingredients



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3.1 Chemical characterization: Substances

INCI – Ingredient Name	CAS Number	Hazard Symbol (CE) No 1272/2008	%-Range
Alcohol Denat.	64-17-5	Flam. Liq. 2 H225	70 %

4. First Aid Measures

4.1. Description of first aid measures

Skin contact: Remove contaminated clothing and wash before reuse. Remove and destroy

contaminated shoes. Flush with plenty of water.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-

tomouth. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Get medical attention IMMEDIATELY.

Eye Contact: Immediately wash the eyes with plenty of water for at least 10 min. holding the eye

open. Obtain medical attention urgently.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: Repeated exposure may cause skin dryness or cracking.

Inhalation: The product can cause cough, drowsiness, headache and dizziness

Ingestion: Ingestion of high amounts can lead to excitement or loss of consciousness. See

inhalation for other symptoms.

Eye Contact: The product can cause redness and pain.

5. Fire Fighting Measures

5.1. Extinguishing media

Extinguishing media: Carbon dioxide (CO2), powder or alcohol resistant foam.

Unsuitable: Waterspray jet.

5.2. Special hazards arising from the substance or mixture



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Highly flammable liquid. Vapours in air can be explosive (see section 9)

5.3. Advice for fire-fighters

Protective equipment: Wear self-contained respiratory protective device.

Additional information: Do not spray water directly into tanks or vessels to avoid boil over or

spillage.

6. Accidental Release Measures

6.1 Personal Precautions

Refer to protective measures listed in sections 8.

6.2 Environmental Precautions

Prevent further leakage or spillage. Do not discharge into the drains/surface waters/groundwater. Do not allow to penetrate the ground/soil.

6.3 Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Dilute with plenty water.

6.4 Additional information

Consult trained personell. Consider the information for "Personal Protection" in chapter 8 of this Safety Data Sheet.

7. Handling and Storage

7.1. Precautions for safe handling

Do not use near ignition sources and sources for flames or sparks. Use in ventilated areas. Use materials which do not build-up static electrical charges.

7.2 Precautions for safe storage

Store in well-ventilated area. Keep containers closed when not in use. Store away from ignition sources. All equipment should be grounded. Avoid strong oxidizing agents, store in a clean, dry area.

7.3 Other Precautions:

All precautions must be observed. Empty container may retain product residues (vapour or liquid).



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8. Exposure Controls / Personal Protection

8.1. Exposure Limits

Hazardous Ingredients	Cas Nr.	Desc.	Value	Unit
Ethanol	64-17-5	OES	1000	Ppm

8.2. Exposure controls

Engineering measures: Use process enclosures, local exhaust ventilation or other engineering controls to

control airborne exposure. Use explosion-proof ventilation equipment.

Respiratory protection: Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during

application and handling unless air monitoring demonstrates vapour/mist levels below applicable limits. Follow respirator manufacturer's recommendations for

selection and use.

Ventilation: Sufficient ventilation must be provided to maintain airborne concentrations below

TLV, PEL and LEL limits as listed in Section 8.

Hand protection: Chemical resistant protective gloves should be worn when handling this product.

Check with glove manufacturer to determine proper glove type.

Eye protection: Splash-proof chemical goggles should be worn

Skin protection: Impervious clothing and boots should be worn. Eye bath and safety shower should

be provided.

Hygenic practices: Good personal hygiene practices are required at all times when handling chemicals.

These practices include, but are not limited to, washing when safety equipment is

removed, at the end of each shift or when going on breaks and especially if

contamination occurs.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form: Liquid

Colour: Clear, colorless
Odour: Like alcohol

Boiling/Freezing Point: 81°C **Viscocity:** N/DA



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Vapor Density :0.88 g/cm3 @ 20°CFlash Point:23°C (closed cup)

Solubility in Water: Fully miscible

Ignition Temperature: 363.0℃

10. Stability and Reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: May occur.

10.4. Conditions to avoid

Conditions to avoid: Heat, flames, ignition sources.

10.5. Incompatible materials Materials to avoid: Oxidizing agents

10.6. Hazardous decomposition products

Haz. decomp. Products: None expected under normal use conditions.

11. Toxicological Information

11.1. Information on toxicological effects Relevant

effects for mixture:

Acute Toxicity:	LD50	LC50/4 h
Oral	>2000 mg/kg	
Dermal	>2000 mg/kg	
Inhalation		>20 mg/l

11.2 Symptoms/routes of exposure

Skin contact: No irritating effect Eye contact: irritating effect

Sensitization: No sensitizing effects known



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12. Ecological Information

12.1 Ecotoxicity (data main ingredient)

Acute toxicity: Fish, Leuciscus Idus (golden orfe), LC50, 48 h, 8140 mg/l

Crustaceans, Daphnia Magna (water flea), EC50, 48 h, >9000 mg/l

12.2 Persistence and degradability

Biodegradation: The product is readily biodegradable. BOD5: 1.55 g O2/g = 74% of the Theoretical Oxygen Demand.

12.3 Bioaccumulation Bioaccumulation: Log Pow <3

Result: No bioaccumulative effects.

12.4 Mobility

Mobility: Considerable solubility and mobility

12.5 Other adverse effects

Other adverse effects: Ecological injuries are not known or expected under normal use

13. Disposal Considerations

13.1 Waste treatment methods

In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit.

13.2 Contaminated packaging

Dispose of as unused product. Where possible recycling is preferred to disposal or incineration.

14. Transport Information

14.1 UN Number 1170

Road Transport: (ADR)

Technical name: : Ethanol, Solution

Class : 3 Pack Group : III Label : 3



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Maritime Transport: (IMDG)

Technical name: : Ethanol, Solution

Class : 3 Pack Group : III

Ems Number : F-E, S-E

IATA:

Technical name: : Ethanol, Solution

UN Number : 1170 Class : 3 Pack Group : III