



SAFETY DATA SHEET

ETHANOL

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME: ETHANOL

PRODUCT NO: RM099

APPLICATION/IDENTIFIED The scope of this SDS is applicable to ethyl alcohol 90-70%

SUPPLIER J M Loveridge Ltd
Unit 5, Kingsway
Walworth Industrial Estate, Andover
Hampshire, SP10 5LQ
+44 (0) 1264 367610
+44 (0) 1264 351761
Mr. S Knight – admin@jmloveridge.com

EMERGENCY CONTACT NUMBER:

2 HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to Regulation (EC) No 1272/2008):

Flammable Liquid Category 2, H225

Eye Effects Category 2, H319

For Full text of H- Statements see Section 16

PRIMARY EFFECTS

Physiochemical Highly flammable liquid and vapour

Human Health Causes serious eye irritation

Environmental None applicable.

LABEL ELEMENTS

Labelling according to Regulation (EC) No 1272/2008

Pictogram



Signal Word: Danger

Hazard Statement (s) H225 H319

Precautionary Statements:

P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233	Keep container tightly close
P280	Wear protective gloves/protective clothing/eye protection/face Protection.

P337 + P313 if eye irritation persists Get medical advice/attention

OTHER HAZARDS

This mixture is not classifiable as PBT or vPvB in accordance with Annex XIII or Regulation (EC) No 1907/2006 Based on an assessment of the constituent ingredients.

3 COMPOSITION/INFORMATION ON INGREDIENTS

GENERAL COMPOSITIONAL DESCRIPTION

A mixture of ethanol (CAS 64-17-5) and purified water BP

HAZARDOUS COMPONENTS ACCORDING TO REGULATIONS (EC) No 1272/2008		
Component name and identifiers	Classification	Concentration % w/w
Ethanol Index No 603- 002-00-5	Flam. Liq 2 – H225 Eye Irrit. 2 – H319	86

For the full text of H-Statement and R-phrases see Section 16

4 FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICE

Extinguish sources of ignition in the area. Avoid contact with skin and eyes. If vapour is likely to be present wear a suitable organic vapour respirator or self- contained breathing apparatus.

IF INHALED

Remove to fresh air, keep warm and at rest. If there are any difficulties with breathing give oxygen. If breathing stops or gives signs of failing apply artificial respiration and seek medical assistance.

IN CASE OF SKIN CONTACT

Remove contaminated clothing; this should not be worn again until it has been laundered. Wash contaminated skin with soap and water. Seek medical advice if discomfort persists.

IN CASE OF EYE CONTACT

Rinse eyes with water and remove contact lenses if possible. Irrigate eyes with water or eye wash solution for at least fifteen minutes. If discomfort persists seek medical assistance.

IF SWALLOWED

Wash mouth out thoroughly with water. Do not induce vomiting. If a significant quantity (>250ml) has been ingested seek medical advice.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Ingestion: Ethanol taken to excess will cause depression of the central nervous system. indicated by nausea, vomiting, muscular incoordination, visual impairment and loss of consciousness. Aspiration during swallowing or vomiting will damage lungs.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

For ingestion treat as alcohol poisoning.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA

Water spray, AFFF foam, chemical dry powder or carbon dioxide

UNSUITABLE EXTINGUISHING MEDIA

Water jet

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Burning may produce irritating fumes carbon monoxide and carbon dioxide

ADVICE FOR FIREFIGHTERS

No specific information use normal personal protective equipment Self-contained breathing apparatus

FURTHER INFORMATION

None

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Extinguish sources of ignition, and ventilate area. For large scale spillages evacuate area wear personal protective equipment as described in Section 8

ENVIRONMENTAL PRECAUTIONS

Do not allow product to enter drains and watercourses. Inform local authority and fire service if preparation enters drains or watercourses.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Use non-sparking tools absorb spillage using a proprietary absorbent or sand, scoop up and place in a suitable container remove to a safe place and dispose of through a licensed waste disposal contractor for incineration. For large scale spillage use absorbent booms to contain the spillage. Wash contaminated area well with water and detergent.

REFERENCE TO OTHER SECTIONS

For personal protective equipment required see section 8 for disposal information see section 13.

7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Ground/bond container and receiving equipment.

Use explosion- proof electrical/ventilating/lighting equipment

Use only non-sparking tools

Take precautionary measures against static discharge

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do Continue rinsing. If eye irritation persists Get medical advice/attention.

Avoid contact with skin and eyes. Use in a well- ventilated area avoid production of fumes or vapour wear suitable respiration if fumes or vapour are produced wash contaminated clothing before reuse.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in well closed original container away from direct sunlight, heat and sources of ignition store at ambient temperature.

SPECIFIC END USE(S)

No specific guidance relevant

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENTS WITH OCCUPATIONAL EXPOSURE LIMITS

The following components have limits set in EH/40/2005 (Second Edition 2011)

Ethanol CAS 64-17-5 Long Term Exposure Limit (8hr TWA) 1000 ppm 1920mg/m³

EXPOSURE CONTROLS**APPROPRIATE ENGINEERING CONTROLS**

Local exhaust ventilation

INDIVIDUAL PROTECTION MEASURES INCLUDING PERSONAL PROTECTIVE EQUIPMENT**EYE/FACE PROTECTION**

Wear goggles or face-shield meeting the requirements of EN166

SKIN PROTECTION**HAND PROTECTION**

Wear Protective gloves Nitrile rubber or PVC are suitable. Wash hands thoroughly with soap and water after use.

OTHER BODY PROTECTION

None required

RESPIRATORY PROTECTION

Use an appropriate CEN approved organic vapour mask or self-contained breathing apparatus if vapour is likely to be present.

ENVIRONMENTAL EXPOSURE CONTROLS

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9 PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	A clear, colourless Liquid
Odour	Odour of alcohol
Odour threshold	No test data
PH	6- 8
Melting/ freezing point range	No test data
Initial boiling point and boiling range	78.C - 100 ⁰ C
Flash Point	15 ⁰ C (Closed Cup)
Evaporation rate	No test data
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive Limits	Ethanol Lower Limit 3.5%V/V Upper Limits 19.0% V/V
Vapour Pressure	No test data
Vapour density	No test data

Relative Density	Approx 0.83 at 20 ^o C
Solubility in	Water
Partition coefficient n-octanol/water	Ethanol Log Pow = -0.32
Auto-ignition temperature	No test data
Decomposition temperature	No test data
Viscosity	No test data – Mobile liquid
Explosive properties	No test data
Oxidising properties	None applicable

OTHER INFORMATION

None applicable

10 STABILITY AND REACTIVITY

REACTIVITY

No known specific reactivity hazards

CHEMICAL STABILITY

Stable under all expected conditions of storage and handling

POSSIBILITY OF HAZARDOUS REACTIONS

None relevant

CONDITIONS TO AVOID

None applicable

INCOMPATIBLE MATERIALS

Strong oxidising agents

HAZARDOUS DECOMPOSITION PRODUCTS

None applicable

11 TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS**ACUTE TOXICITY**

Based on available data on the hazardous constituents identified in section 3 the classification criteria are not met.

INHALATION

Based on the content of ethanol the mixture is classified as Eye irritant Category 2

CORROSIVITY

Based on available data on the hazardous constituents identified in section 3 the classification criteria are not met.

SENSITISATION

Based on available data on the hazardous constituents identified in section 3 the classification criteria are not met.

REPEATED DOSE TOXICITY

Based on available data on the hazardous constituents identified in section 3 the classification criteria are not met.

CARCINOGENICITY

Based on available data on the hazardous constituents identified in section 3 the classification criteria are not met.

MUTAGENICITY

Based on available data on the hazardous constituents identified in section 3 the classification criteria are not met.

TOXICITY FOR REPRODUCTION

Based on available data on the hazardous constituents identified in section 3 the classification criteria are not met.

ADDITIONAL INFORMATION

None applicable

12 ECOLOGICAL INFORMATION

TOXICITY

TOXICITY TO FISH	No data available for product No constituents are classified with respect to toxicity to fish
TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES	No data available for product. no constituents are classified with respect to toxicity to aquatic invertebrates
TOXICITY TO ALGAE	No data available for product. No constituents are classified with respect to toxicity to algae

PERSISTENCE AND DEGRADABILITY

Based on available data on the hazardous constituents identified in section 3 the product is expected to readily biodegrade.

BIOACCUMULATIVE POTENTIAL

Based on available data on the hazardous constituents identified in section 3 the product is unlikely to bioaccumulate.

MOBILITY IN SOIL

For the hazardous constituents identified in section 3 Ethanol is expected to have a very high mobility in soil.

RESULTS OF PBT AND vPvB ASSESSMENT

The mixture contain no constituents which are classified as PBT or vPvB

OTHER ADVERSE AFFECTS

No information

13 DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS**PRODUCT**

Dispose of product through a suitable licenced waste disposal contractor

CONTAMINATED PACKAGING

Rinse containers and send for recycling

14 TRANSPORT INFORMATION

	ROAD (ADR)	SEA (IMDG)	AIR (IATA)
UN NUMBER	UN1170		
UN PROPER SHIPPING NAME	ETHANOL SOLUTION		
TRANSPORT HAZARD CLASS (ES)	3		
PACKING GROUP	II		
ENVIRONMENTAL HAZARDS	None	None	None
SPECIAL PRECAUTIONS FOR USER	None	None	None
ADDITIONAL INFORMATION	Transport Cat 2 Tunnel Code D/E Hazard Ident 33	EmS F-E, S-D	ERG Code 3L

15 REGULATORY INFORMATION

This safety data sheet has been compiled in accordance with the requirements of Regulation (EC) NO 1907/2006

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

None applicable

CHEMICAL SAFETY ASSESSMENT

A chemical safety assessment has not been carried out for this product.

16 OTHER INFORMATION**CHANGES MADE TO THIS UPDATE TO THE SAFETY DATA SHEET**

First Issue of the safety Data sheet in line with the requirements of Regulation (EC) No 1907/2006. All sections have been updated.

REFERENCES USED IN COMPILATION OF THIS SAFETY DATE SHEET

Regulation (EC) No 1907/2006 on the Regulation, Evaluation Authorisation and restriction of chemicals (REACH)

Regulation (EC) No 1272/2008 on classification, labelling and packaging (CLP) of substances and mixtures.

European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR) 2015 Edition.

International Maritime Dangerous Goods Code 2014 Edition

IATA Dangerous Goods Regulations 56th Edition 2015

Martindale 35th edition pages 1462 (Ethanol)

Sax's Dangerous Properties of industrial Materials eighth edition page 1572 EFU000 (Ethyl Alcohol)

The Merck index 11th edition entry 3716 (Ethyl Alcohol)

C&L Inventory on line ECHA Website

EH40/2005 Workplace exposure limits

METHODS OF EVALUTION USED FOR CLASSIFICATION OF THIS MIXTURE UNDER ARTICLE 9 OF REGULATION (EC) NO 1272/2008

This safety data sheet has been produced expert judgement based on the classification of constituents of this product as allowed under Article 9.

FULL TEXT OF H-STATEMENTS REFERRED TO UNDER OTHER SECTIONS

H225-Highly flammable liquid and vapour

H319- Causes serious eye irritation.

TRAINING RECOMMENDED TO BE CARRIED OUT PRIOR TO USE OF THIS MATERIAL

All staff handling this material must be suitably trained in the safe use chemicals in the relevant industry/workplace

DISCLAIMER

The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this SDS is to the best of JML's knowledge correct at the time of publication. However, no guarantee is given to its accuracy, reliability or completeness and the information may not be valid if the product is used in combination with other materials or process. It is the responsibility of the user to ensure that the product which they have selected is entirely suitable for their purpose under their conditions of use and in compliance with current regulatory requirements.