



# SAFETY DATA SHEET

## ETHANOL ABSOLUTE

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### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

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PRODUCT NAME: ETHANOL ABSOLUTE

PRODUCT NO: RM099

APPLICATION/IDENTIFIED The scope of this SDS is applicable to ethyl alcohol 90 – 100%

SUPPLIER J M Loveridge Ltd  
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Mr. S Knight – admin@jmloveridge.com

EMERGENCY CONTACT NUMBER:

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### 2 HAZARDS IDENTIFICATION

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#### Classification of the substance or mixture

Classification (EC 1272/2008):	Physical and Chemical Hazards	Flam. Liq. 2 – H225
	Human Health	Not classified
	Environment	Not classified

Classification (67/548/EEC): F;R11

The full text for all R-Phrases and Hazard Statements are displayed in Section 16

#### Human Health

In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea

#### Environment

The product is not expected to be hazardous to the environment

#### Physical and Chemical Hazards

The product is highly flammable and explosive vapours/air mixtures may be formed even at normal room temperatures

#### Label elements

EC No: 200-578-6

Label in accordance with (EC) No: 1272/2008



Signal Word:	Danger	
Hazard Statements:	H225	Highly flammable liquid and vapour
Precautionary Statements:	P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
	P233	Keep container tightly closed
	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 with water/shower
	P403+235	Store in a well-ventilated place. Keep cool

#### Other Hazards

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### **3 COMPOSITION/INFORMATION ON INGREDIENTS**

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#### Substances

Product Name:	Ethanol
REACH Registration Number:	01-2119457610-43-XXXX
CAS-No:	64-17-5
EU Index No:	603-002-00-5
EC No:	200-578-6
Composition Comments:	The data shown are in accordance with the latest EC Directives

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### **4 FIRST-AID MEASURES**

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#### DESCRIPTION OF FIRST AID MEASURES

##### GENERAL INFORMATION

General first aid, rest, warmth and fresh air. Do not give victim anything to drink if they are unconscious. Get medical attention if any discomfort continues.

##### INHALATION

Move injured person into fresh air and keep person calm under observation. If necessary, seek hospital and bring these instructions.

##### INGESTION

Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions

##### SKIN CONTACT

Immediately remove contaminated clothing. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water

##### EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eye wide apart. Get medical attention promptly if symptoms occur after washing.

##### MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

##### INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

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### **5 FIRE-FIGHTING MEASURES**

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#### EXTINGUISHING MEDIA

**EXTINGUISHING MEDIA**

Use: Alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>). Dry chemicals, sand, dolomite etc. DO NOT use water if avoidable

**SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE****UNUSUAL FIRE & EXPLOSION HAZARDS**

Fire causes formation of toxic gases

**SPECIFIC HAZARDS**

The product is highly flammable, and explosive vapours/air mixtures may be formed even at normal room temperatures

**ADVICE FOR FIREFIGHTERS****PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Self contained breathing apparatus and full protective clothing must be worn in case of fire

**6 ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Wear protective clothing as described in Section 8 of this Safety Data Sheet

**ENVIRONMENTAL PRECAUTIONS**

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

**METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

Keep combustibles away from spilled material. Absorb in vermiculite, dry sand or earth and place into containers. Wash contaminated area with water. Wash thoroughly after dealing with a spillage.

**REFERENCE TO OTHER SECTIONS****7 HANDLING AND STORAGE****PRECAUTIONS FOR SAFE HANDLING**

Avoid spilling, skin and eye contact. Do not use contact lenses. Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Use explosion proof electric equipment. Eye wash facilities and emergency shower must be available when handling this product. During application and drying, solvent vapours will be emitted.

**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

**STORAGE CLASS**

Flammable liquid storage.

**SPECIFIC END USE(S)****8 EXPOSURE CONTROLS/PERSONAL PROTECTION****CONTROL PARAMETERS**

Name	STD	TWA – 8 Hrs		STEL – 15 Min		Notes
ETHANOL	WEL	1000 ppm	1920 mg/m <sup>3</sup>			

WEL = Workplace Exposure Limit

## INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

EXPOSURE CONTROLS

PROTECTIVE EQUIPMENT



## PROCESS CONDITIONS

Provide eyewash station

## ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded

## RESPIRATORY EQUIPMENT

No personal respiratory protective equipment normally required. In adequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus type A filter or appropriate combined filter (e.g. where aerosols are in use, or smoke and mist occur, A-P2 or ABEK-P2), in compliance with EN 141.

## HAND PROTECTION

Protective gloves and goggles must be used if there is a risk of direct contact or splash

## EYE PROTECTION

Contact lenses should not be worn when working with this chemical! Wear approved safety goggles.

## OTHER PROTECTION

Use engineering controls to reduce air contamination to permissible exposure level. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Provide eyewash station and safety shower.

## HYGIENE MEASURES

Wash promptly if skin becomes contaminated. Promptly remove non-impervious clothing that becomes contaminated. When using do not eat, drink or smoke.

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**9 PHYSICAL AND CHEMICAL PROPERTIES**


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## INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Colour	Colourless
Odour	Odour of alcohol
Solubility	Completely soluble in water
Initial boiling point and boiling range	78.2 760 mm Hg
Melting Point (°C)	-114
Relative Density	0.8 20
Vapour Pressure	5.85 kPa 20
Viscosity	1.2 mPas 20
Flash Point	12 CC (Closed Cup)
Auto Ignition Temperature (°C)	363
Comments	Information given concerns the concentrated solution

## OTHER INFORMATION

Volatility Description Volatile

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## 10 STABILITY AND REACTIVITY

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### REACTIVITY

#### CHEMICAL STABILITY

No particular stability concerns

#### POSSIBILITY OF HAZARDOUS REACTIONS

#### CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition

#### INCOMPATIBLE MATERIALS

#### HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours

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## 11 TOXICOLOGICAL INFORMATION

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### INFORMATION ON TOXICOLOGICAL EFFECTS

#### Toxic Dose 1 – LD 50

>2000 mg/kg (oral rat)

#### Toxic Conc. – LC 50

>20mg/l 4h mouse

#### INHALATION

In high concentrations, vapours may irritate throat and respiratory system and cause coughing

#### INGESTION

Gastrointestinal symptoms, including stomach upset

#### SKIN CONTACT

Repeated exposure may cause skin dryness or cracking. Irritating to skin

#### EYE CONTACT

Irritating and may cause redness and pain

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## 12 ECOLOGICAL INFORMATION

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### ECOTOXICITY

The product is not expected to be hazardous to the environment

#### TOXICITY

LC 50, 96 Hrs, Fish mg/l >100

EC 50, 48 Hrs, Daphnia, mg/l >100

IC 50, 72 Hrs, Algae, mg/l >100

#### PERSISTENCE AND DEGRADABILITY

##### DEGRADABILITY

The product is biodegradable, but it must not be discharged into drains without permission from the authorities

##### BIOACCUMULATIVE POTENTIAL

##### BIOACCUMULATIVE POTENTIAL

The product does not contain any substances expected to be bioaccumulating

##### MOBILITY IN SOIL

##### MOBILITY

The product is soluble in water

##### RESULTS OF PBT AND vPvB ASSESSMENT

##### OTHER ADVERSE EFFECTS

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## 13 DISPOSAL CONSIDERATIONS

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### GENERAL INFORMATION

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

### WASTE TREATMENT METHODS

Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point. Make sure containers are empty before discarding (explosion risk)

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## 14 TRANSPORT INFORMATION

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### UN NUMBER

UN No (ADR/RID/ADN) 1170

UN No (IMDG) 1170

UN No (ICAO) 1170

### UN PROPER SHIPPING NAME

Proper Shipping Name Ethanol (ETHYL ALCOHOL) or Ethanol Solution (ETHYL ALCOHOL SOLUTION)

### TRANSPORT HAZARD CLASS(ES)

ADR/RID/ADN CLASS 3

ADR/RID/ADN CLASS Class 3: Flammable liquids

ADR Label No 3

IMDG Class 3

ICAO Class/Division 3

### Transport Labels



### PACKING GROUP

ADR/RID/ADN Packing group II

IMDG Packing group II

ICAO Packing group II

### ENVIRONMENTAL HAZARDS

Environmentally Hazardous Substance/Marine Pollutant No

### SPECIAL PRECAUTIONS FOR USER

EMS F-E, S-D

Emergency Action Code ●2YE

Hazard No (ADR) 33

Tunnel Restriction Code (D/E)

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE

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## 15 REGULATORY INFORMATION

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

National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 No. 1689. Workplace Exposure Limits 2005 (EH40)  
CHEMICAL SAFETY ASSESSMENT

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**16 OTHER INFORMATION**

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## RISK PHRASES IN FULL

R11 Highly flammable

## HAZARD STATEMENTS IN FULL

H225 Highly flammable liquid and vapour

## 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.