## 1. Identification

1111704 Product Code

ETHANOL RECTIFIED (duty paid) Product Name

64-17-5 CAS Number

Supplier:



CAMLAB LIMITED

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Over Cambridge England CB4 5WE

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> 24hr 112 (Have this document to hand)

# 2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Ethanol	64-17-5	200-578-6	> 90.0%	F : R11	WEL

#### 3. Hazards Identification



Highly flammable.

### 4. First Aid Measures

Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open.

OBTAIN MEDICAL ATTENTION.

Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash Skin

before re-use.

Inhalation Remove from exposure. Keep warm and at rest. Remove from exposure. If there is difficulty

in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL

ATTENTION URGENTLY.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty

in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL

ATTENTION URGENTLY.

# 5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-

fighters should wear protective clothing and breathing apparatus. Vapour-air mixtures are

explosive.

Water spray, alcohol resistant foam, dry powder or carbon dioxide. Use water spray to keep Extinguishing Media

fire exposed containers cool.

Unsuitable

Media

Do not use water jet.

#### 6. Accidental Release Measures

Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective Personal Protection

equipment. Evacuate area immediately. Do not allow general use of area until it is safe to

do so.

Enviromental Keep material out of sewers, storm drains, surface waters and soil. Notify the

Environmental Agency and local Environmental Health Officer if major spillage occurs.

Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Major Spillage

Wash area down with copious amounts of water.

Contain and absorb on inert material. Transfer absorbent to container for removal. Allow Minor Spillage

solvent to evaporate in remote area, then dispose of absorbent as solid chemical waste.

Wash area down with copious amounts of water.

# 7. Storage & Handling

Handling Precautions All transfer systems should be earthed to prevent accumulation of static electricity. Avoid

contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended

Well ventilated, cool, dry storage . Protect from direct sun and store away from sources of Storage Conditions

ignition. Keep containers closed when not in use. Keep well separated from oxidising

# 8.1 Workplace Exposure Limits

Component	CAS No	Workplace Exposure Limits		Maximum Exposure Limits	
		Long Term	Short Term	Long Term	Short Term
		ppm mg m–3	ppm mg m-3	ppm mg m–3	ppm mg m-3
Ethanol	64-17-5	1000 1920	3000 5760		= =

# 8.2 Personal Protection

Respiratory Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits.

If not, use a well maintained chemical cartridge organic vapour respirator, or use self

contained breathing apparatus.

Hands Use solvent resistant gloves.

Use chemical splash proof glasses or goggles. Eyes

Avoid contact with skin. If skin contact or contamination of clothing is likely, protective Skin

clothing must be worn.

### 9. Physical & Chemical Properties

Clear colourless liquid.

Fresh and characteristic. Odour Not available рН

78.3 °C Boiling point 112.3- °C Melting point

13.0 °C(Closed cup) Flash point

Upper Flammable Limit 19.0 % Lower Flammable Limit 3.3 % 363.0 °C Auto Tanition

Explosive properties Moderate/severe in confined spaces.

Oxidising Properties No.

Vapour Presure 59 mmHg @ 20,C

Relative Density 0.8280

Water Solubility Completely miscible in water.

### 10. Stability & Reactivity

Chemical Stability Stable under normal conditions

Conditions to Avoid Hot surfaces, naked flames or other sources of ignition.

# 10. Stability & Reactivity (continued)

Materials to Avoid Strong oxidising agents. Nitric acid. Silver nitrate, potassium perchlorate, chromyl

chloride, chromium trioxide and permanganic acid. Peroxides, potassium permanganate, sodium,

potassium, platinum, potassium tertiary butoxide.

Hazardous Decomposition Products None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide.

### 11. Toxicological Information

High concentrations of vapour may be irritating to the eyes. Eves

Repeated or prolonged contact may defat the skin producing irritation and dermatitis. Skin

Unlikely to be absorbed across the skin in harmful amounts.

LD50 Skin Rabbit 20q/Kq

Ingest Low order of acute toxicity. Fatal dose in man 300-400ml. Ingestion of large amounts will

> produce central nervous system depression. Symptoms may include nausea, vomiting muscular incoordination and loss of consciousness. Aspiration during swallowing or vomiting may

injure lungs.

Oral Rat 21g/kg LD50 Ingest

Inhalation Exposure to vapour concentrations above the occupational exposure limits may produce

> irritation of the eyes and respiratory tract. High concentrations of vapour may produce central nervous system depression and unconsciousness. Symptoms will be similar to those

following ingestion.

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Some evidence for foetoxicity and tetragenecity has been observed in experimental animals Reproductive Effects

treated with high doses of ethanol during gestation.

## 12. Ecological

Readily bio-degraded in the environment.

#### 13. Disposal Considerations

Disposal Methods Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic

waste. Never dispose of into water courses or sewerage systems due to high risk of

explosion.

Contaminated Packaging Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of

explosion.

#### 14. Transport Information

Proper Shipping Name UN Number 1170

UN Classification Flammable liquid

Subsidiary Risk None

Flash Point 13.0 °C(Closed cup)

Packing Group ΙI Transport Category Marine pollutant No ADR Hazard ID 33

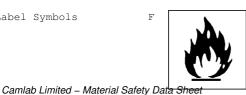


### 15. Regulatory Information

Labelling Highly Flammable.

Classification

Label Symbols



# 15. Regulatory Information (continued)

Risk & safety Phrases Highly flammable. Keep out of reach of children. Keep container tightly closed. Keep away

from sources of ignition - No Smoking.

EEC Number 200-578-6

# 16. Other Information

Document Information This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

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