1. Identification

Product Code 1111173

ETHANOL ABSOLUTE A.R. (duty paid) Product Name

 $CH_3CH_2OH = 46.07$ Molecular Formula

64-17-5 CAS Number

Supplier:



CAMLAB LIMITED

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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	> 99.5%	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

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.

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

fire exposed containers cool.

Unsuitable

Do not use water jet.

Media

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

limits.

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

Workplace Exposure Limits 1920 Long Term (8hr TWA): 1000 ppm mq m-3Short Term (15min Period): 3000 5760 mg m-3 ppm

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

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

clothing must be worn.

9. Physical & Chemical Properties

Clear colourless liquid. Appearance Odour Fresh and characteristic.

Not available Boiling point 78.3 °C Melting point 112.3- °C

13.0 °C(Closed cup) Flash point

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

Explosive properties Moderate/severe in confined spaces.

Oxidising Properties No.

Vapour Presure 59 mmHg @ 20,C

Relative Density 0.7911

Water Solubility Completely miscible in water.

10. Stability & Reactivity

Chemical Stability Stable under normal conditions

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

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

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

Decomposition Products

11. Toxicological Information

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

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

Unlikely to be absorbed across the skin in harmful amounts.

LD50 Skin Rabbit 20g/Kg

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.

LD50 Ingest Oral Rat 21g/kg

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.

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

treated with high doses of ethanol during gestation.

12. Ecological

Readily bio-degraded in the environment.

13. Disposal Considerations

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 Ethano
UN Number 1170

UN Classification 3 Flammable liquid

Subsidiary Risk None

Flash Point 13.0 °C(Closed cup)

Packing Group II
Transport Category 2
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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