1. Identification

1111581 Product Code

BUTANONE tech. Product Name

 $C_2H_5COCH_3 = 72.11$ Molecular Formula

78-93-3 CAS Number

Supplier:



CAMLAB LIMITED

Norman Way Industrial Estate 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)
Methyl ethyl ketone	78-93-3	201-159-0	> 99.0%	F Xi : R11,R36,R66,R67	WEL

3. Hazards Identification





Highly flammable. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

4. First Aid Measures

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

eve open. OBTAIN MEDICAL ATTENTION.

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

before re-use. If discomfort persists OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure. Keep warm and at rest. 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, foam, dry powder or carbon dioxide. Use water spray to keep fire exposed Media

containers cool.

Unsuitable Do not use water jet.

Media

6. Accidental Release Measures

Personal Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective Protection equipment. Evacuate area immediately. Do not allow general use of area until it is safe to

do so. Beware: vapour is heavier than air and will tend to accumulate at low spots.

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

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

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

Wash area down with copious amounts of water.

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

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 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.

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

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

agents.

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
Methyl ethyl ketone	78-93-3	200.0 600.0	300.0 899.0		

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.

Eyes Use chemical splash proof glasses or goggles.

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

clothing must be worn.

9. Physical & Chemical Properties

Appearance Clear colourless liquid.

Odour Pungent.
pH Not available
Boiling point 79.6 °C
Melting point 85.9- °C

Flash point 1.0- °C(Closed cup)

Upper Flammable Limit 11.0 % Lower Flammable Limit 1.9 % Auto Ignition 516.0 °C

Explosive properties Severe in confined spaces.

Oxidising Properties No.

Vapour Presure 71.2 mmHg @ 20,C

Relative Density 0.8061 Water Solubility 25%

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.

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

Decomposition Products

11. Toxicological Information

Eyes Both the vapour and liquid may, produce conjunctival irritation and corneal damage.

Skin Both the vapour and liquid may, be an irritant on brief or occasional exposure. Repeated or

prolonged contact may defat the skin producing irritation and dermatitis.

LD50 Skin Rabbit 13g/Kg

Ingest Low order of acute toxicity. Ingestion of large amounts will produce gastrointestinal

irritation. and central nervous system depression, leading to unconsciousness. Aspiration

during swallowing or vomiting may injure lungs.

LD50 Ingest Oral Rat 3400 mg/Kg

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

irritation of the eyes and respiratory tract. High concentrations of vapour may produce

central nervous system depression and unconsciousness.

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

Other Information Odour is noticeable at 25ppm and intensely irritating at 350ppm.

12. Ecological

Bio-oxidation as a % of Theoretical O2 Demand (ThOD) - ThOD 2.44 gm/gm : Fresh water 5 days 76%, 20 days 89% : Salt water 5 days 32%, 20 days 69%. Unlikely to bio-accumulate. Material is practically non-toxic to fish on an acute basis (LC50 > 100 mg/l.

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 Methyl Ethyl Ketone

UN Number 1193

UN Classification 3 Flammable liquid

Subsidiary Risk None

Flash Point 1.0- °C(Closed cup)

Packing Group II
Transport Category 2
Marine pollutant No
ADR Hazard ID 33



15. Regulatory Information

Labelling Highly Flammable, Irritant.

Classification

Label Symbols F



15. Regulatory Information (continued)

Risk & safety Phrases Highly flammable. Irritating to eyes. Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness. Keep out of reach of children. Keep container

in a well ventilated place. Keep away from sources of ignition - No Smoking.

EEC Number 201-159-0

16. Other Information

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

> 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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