



SAFETY DATA SHEET

ETHYL METHYL KETONE

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Issued: 23/10/2006

Revision No: 1

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

Product name: ETHYL METHYL KETONE

CAS number: 78-93-3

EINECS number: 201-159-0

Index number: 606-002-00-3

Synonyms: BUTANONE

MEK

METHYL ETHYL KETONE

Company name: Unicorn Chemicals Ltd

Unicorn House

Mowbray Drive

Blackpool

Lancashire

FY3 7UN

Tel: 01253 396101

Fax: 01253 302895

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: ETHYL METHYL KETONE >90%

3. HAZARDS IDENTIFICATION

Main hazards: Highly flammable. Irritating to eyes. Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

Other hazards: In use, may form flammable / explosive vapour-air mixture.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be shortness of breath due to congestion of the lungs. Nausea and stomach pain may occur. There may be vomiting. There may be loss of consciousness. Convulsions may occur.

Inhalation: Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath.

4. FIRST AID MEASURES (ACTION)

Skin contact: Wash skin thoroughly with water and remove contaminated clothing. Obtain medical attention if symptoms develop.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Beware of aspiration if vomiting occurs. Get prompt medical attention.

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Inhalation: Remove to fresh air. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Carbon dioxide. Alcohol or polymer foam. Dry chemical powder.

Exposure hazards: In combustion emits toxic fumes.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Evacuate the area immediately. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Refer to section 8 of SDS for personal protection details. Eliminate all sources of ignition. Extinguish naked flames. No smoking. Avoid sparks.

Environmental precautions: Contain the spillage using sufficient appropriate absorbent material.

Clean-up procedures: Wash away any residues to foul sewer.

7. HANDLING AND STORAGE

Handling requirements: Ensure there is sufficient ventilation of the area. Do not breathe vapour. Do not handle in a confined space. Extinguish any naked flames. Remove ignition sources. Avoid sparks. Smoking is forbidden. Use non-sparking tools. Take precautionary measures against static discharges. Avoid prolonged or repeated contact with skin.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Keep away from direct sunlight. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Workplace exposure limits**

WEL (8 hr exposure limit): 600 mg/m³

WEL (15 min exposure limit): 899 mg/m³ (Sk)

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: If Workplace Exposure Limit(s) listed above are exceeded, respiratory protection may be required.

Hand protection: Use of impervious gloves is recommended. (Sk) noted above means can be absorbed through skin.

Eye protection: Wear safety glasses or goggles if risk of splashing.

Skin protection: Protective overalls.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

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Colour: Colourless**Odour:** Pungent**Oxidising:** Non-oxidising (by EC criteria)**Solubility in water:** Soluble**Viscosity:** Non-viscous**Boiling point/range°C:** 79**Flammability limits %: lower:** 1.8**upper:** 11.5**Flash point°C:** -4**Autoflammability°C:** 516**Relative density:** 0.806**10. STABILITY AND REACTIVITY****Stability:** Stable under normal conditions.**Conditions to avoid:** Heat. Flames. Sparks.**Materials to avoid:** Strong acids. Strong bases. Oxidising agents.**Haz. decomp. products:** Complete combustion will result in carbon oxides and water.**11. TOXICOLOGICAL INFORMATION****Routes of exposure:** Exposure to high levels of vapour may cause drowsiness, dizziness, nausea, headaches, vomiting. Prolonged contact with skin may cause irritation leading to dermatitis in extreme cases.**12. ECOLOGICAL INFORMATION****Mobility:** Soluble in water.**Persistence and degradability:** Readily biodegradable.**Bioaccumulative potential:** No bioaccumulation potential.**Other adverse effects:** Practically non-toxic to aquatic life.**13. DISPOSAL CONSIDERATIONS****Disposal operations:** Contact Unicorn Chemicals Ltd to arrange disposal.**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.**14. TRANSPORT INFORMATION****ADR / RID****UN no:** 1193**ADR Class:** 3**Packing group:** II**Classification code:** F1**Shipping name:** ETHYL METHYL KETONE (METHYL ETHYL KETONE)**Labelling:** 3**Hazard ID no:** 33

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**IMDG / IMO**

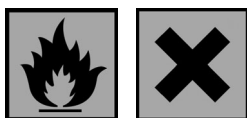
UN no: 1193	Class: 3
Packing group: II	EmS: F-E,S-D
Marine pollutant: NO	Labelling: 3

IATA / ICAO

UN no: 1193	Class: 3
Packing group: II	Packing instructions: 305(P&CA); 307(CAO)
Labelling: 3	

15. REGULATORY INFORMATION

Hazard symbols: Highly flammable.
Irritant.



Risk phrases: R11: Highly flammable.
R36: Irritating to eyes.
R66: Repeated exposure may cause skin dryness or cracking.
R67: Vapours may cause drowsiness and dizziness.

Safety phrases: S2: Keep out of the reach of children.
S9: Keep container in a well-ventilated place.
S16: Keep away from sources of ignition - No smoking.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S33: Take precautionary measures against static discharges.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Other information: This safety data sheet is prepared in accordance with EC Directive 2001/58/EC.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.