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METHANOL 60% SOLUTION				

Section 1 – Chemical Product and Company Identification

1.1. Product identifier:

Methanol (60%) solution.

1.2. Relevant identified uses of the substance or mixture and uses advised against:

To be used as a sample preservative for analytical testing.

1.3. Details of the supplier of the safety data sheet:



ALS Laboratories (UK) Limited

Torrington Avenue,
Coventry, CV4 9GU

1.4. Emergency telephone number

T: +44 (0)24 7642 1213

F: +44 (0)24 7685 6575

Section 2 – Hazards Identification

2.1. Classification of the substance or mixture

Flammable liquids (Category 2), H225

Acute toxicity, Oral (Category 3), H301

Acute toxicity, Inhalation (Category 3), H331

Acute toxicity, Dermal (Category 3), H311

Specific target organ toxicity - single exposure (Category 1), Eyes, H370

2.2. Label elements

Pictograms



Signal word: Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.

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H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.
H370 Causes damage to organs (Eyes).

Precautionary statement(s):

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/ protective clothing.

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

Rinse mouth.

P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.

P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.

Supplemental Hazard Statements: None.

Reduced labelling for packages where contents do not exceed 125ml is not applicable.

Section 3 – Composition, Information on Ingredients

3.2. Mixtures

Component	Hazards	Concentration
Methanol	H225, H301, H311, H331, H370.	40%
Water	None.	60%

Section 4 – First Aid Measures

4.1. Description of first aid measures

Inhalation: Remove to fresh air.

Skin Contact: Flush with water.

Eye Contact: Immediately flush with water for a minimum of 15 minutes.

Ingestion: Methanol may be fatal or cause blindness. Seek immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3. Indication of any immediate medical attention and special treatment needed

Effects may be delayed. Ethanol may inhibit methanol metabolism.

Section 5 – Fire Fighting Measures

5.1. Extinguishing media: Dry chemical, carbon dioxide or appropriate foam.

5.2. Special hazards arising from the substance or mixture: Vapour may travel considerable distance to source of ignition and flash back.

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5.3. Advice for firefighters: As in any fire, wear self-contained breathing apparatus, and full protective gear. Methanol burns with a clear, almost invisible flame.

Section 6 – Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures: Protect skin and eyes from spillages. Avoid breathing vapours. Remove all sources of ignition.

6.2. Environmental precautions: Avoid release into surface water drains or the environment.

6.3. Methods and materials for cleaning up: Use a suitable absorbent. Collect into a container, close lid. Store for specialist disposal.

6.4. Reference to other sections. See suitable PPE in section 8.

Section 7 – Handling and Storage

7.1 Precautions for safe handling

Avoid inhalation of vapour or mist. Avoid sources of ignition.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8 – Exposure Controls, Personal Protection

8.1. Control parameters: Under EH40 (UK) Methanol 200ppm (STEL) 250ppm (TWA).

8.2. Exposure controls: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling this product. Eyes/face – Wear appropriate safety glasses. Skin – Keep skin covered. Wear nitrile/neoprene or rubber-butyl gloves as per risk assessment. Dispose of or rinse gloves after contamination.

Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance: Clear Specific Gravity: NA Melting Point: NA

Physical State: Liquid Flash Point: 20.6°C 69°F (Methanol matrix) Vapour Pressure: NA

Odour: Slight Explosion Limits: NA Vapour Density (air=1): NA

pH: NA Boiling Point: 74°C 165.6°F (Methanol matrix) Solubility in Water: Soluble

9.2. Other information

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Section 10 – Stability and Reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal temperatures and pressures.

10.3. Possibility of hazardous reactions

Hazardous Polymerization: Has not been reported.

10.4. Conditions to avoid

Heat, flame, and sources of ignition.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide.

Section 11 – Toxicological Information

11.1. Information on toxicological effects:

Primary Route(s) of Exposure Under Normal Use: Inhalation, eye contact, absorbed through skin.

Target Organ(s): Respiratory system, eyes, kidney, and central nervous system.

Acute Effects: Headache, nausea, dizziness, blurred vision, central nervous system depression, and respiratory depression.

Methanol: Oral, rat: LD50 = 5628 mg/kg; Dermal, rabbit: LD50=5628mg/kg; Inhalation, rat: LC50 = 64,000 ppm/4H

Chronic Effects: Impaired vision, dermatitis.

Other Information: Chemical Ingredient(s) not classified as carcinogen.

Section 12 – Ecological Information

12.1. Toxicity: Dangerous to aquatic life in high concentrations. Ecotoxicity in water (LC50): 29400 mg/L 96 hours [Fish (Fathead minnow)].

12.2. Persistence and degradability: No data available.

12.3. Bioaccumulative potential: No data available.

12.4. Mobility in soil: No data available.

12.5. Results of PBT and vPvB assessment: No data available.

12.6. Other adverse effects: No data available.

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Section 13 – Disposal Considerations

13.1. Waste treatment methods

Reuse or reprocess if possible. Do not dump into any sewers, on the ground, or into any body of water. Any disposal practice must be in compliance with regulations (contact environmental agency for specific rules). Waste characterisation and compliance with applicable laws are the responsibility of the waste generator.

Section 14 – Transport Information

14.1. UN number: 1230.

14.2. UN proper shipping name: Methanol, solution.

14.3. Transport hazard class(es): 3.

14.4. Packing group: II.

14.5. Environmental hazards: No.

14.6. Special precautions for user: As per section 7.

Section 15 – Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

CDG (Carriage of Dangerous Goods) Regulations

CLP (Chemicals, Labelling and Packaging) Regulations.

CoSHH (Control of Substances Hazardous to Health) regulations

Hazardous Waste Regulations

PPE Regulations

Workplace Exposure Limits EH40

15.2. Chemical safety assessment: For this product a chemical safety assessment was not carried out.

Section 16 – Other Information

16.1 Other information:

Written by Paul Talbot.

16.2 Date of the latest revision of the SDS:

See document header.