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ACETONITRILE				

Section 1 – Chemical Product and Company Identification

1.1. Product identifier:
Acetonitrile.

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 4), H302
Acute toxicity, Inhalation (Category 4), H332
Acute toxicity, Dermal (Category 4), H312
Eye irritation, (Category 2), H319

2.2. Label elements

Pictograms



Signal word: Danger

Hazard statement(s)
H225 Highly flammable liquid and vapour.

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H302 + H312 + H332 Toxic if swallowed, in contact with skin or if inhaled.
H319 Causes serious eye irritation.

Precautionary statement(s):

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.

Supplemental Hazard Statements: None.

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

Pictograms



Signal word: Danger

Section 3 – Composition, Information on Ingredients

3.1. Substances

Component	Hazards	Concentration
Acetonitrile	H225, H302, H312, H332, H319.	100%

Section 4 – First Aid Measures

4.1. Description of first aid measures

Inhalation: Remove to fresh air. If symptoms persist consult a doctor.

Skin Contact: Flush with water, if irritation continues consult a doctor.

Eye Contact: Immediately flush with water for a minimum of 15 minutes, if irritation continues consult a doctor.

Ingestion: Rinse out mouth. Seek immediate medical attention.

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

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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
Symptoms of poisoning may not emerge for several hours, therefore observe victim for 48 hours.

Section 5 – Fire Fighting Measures

5.1. Extinguishing media: Water, 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. Vapours are heavier than air.

5.3. Advice for firefighters: As in any fire, wear self-contained breathing apparatus, and full protective gear.

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. Ensure good ventilation. 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) Acetonitrile 60ppm (STEL) 40ppm (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.

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Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance: Clear liquid.
 Melting Point: -46°C.
 Flash Point: 5°C.
 Boiling Point: 81°C.
 Lower Explosion CV: 4.4%.
 Upper Explosion CV: 16%.
 Odour: Aromatic.

9.2. Other information

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

Poisonous gases/vapours.

Section 11 – Toxicological Information

11.1. Information on toxicological effects:

Primary Route(s) of Exposure under Normal Use: Inhalation, eye contact, absorbed through skin.
 Acetonitrile: Oral, rat: LD50 = 2730-3800 mg/kg; Dermal, rabbit: LD50 = 988 mg/kg; Inhalation, rat: LC50 = 27.3 mg/l.

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

Section 12 – Ecological Information

12.1. Toxicity: Ecotoxicity in water (LC50): 1640 mg/L 96 hours [Fish (Fathead minnow)].
 (LC50): 1650 mg/L 96 hours [Fish (Guppy)].

12.2. Persistence and degradability: This product biodegrades.

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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.

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: 1648.

14.2. UN proper shipping name: Acetonitrile.

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:

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Written by Paul Talbot.

16.2 Date of the latest revision of the SDS:
See document header.