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2-CHLOROACETAMIDE IN METHANOL				

Section 1 – Chemical Product and Company Identification

1.1. Product identifier:

2-chloroacetamide in methanol.

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

Reproductive toxicity (Category 2), H361f

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.

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.

H361f Suspected of damaging fertility

H370 Causes damage to organs (Eyes).

Precautionary statement(s):

P210 Keep away from heat, hot surfaces, sparks, open flames and

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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.	94%
2-chloroacetamide	H301, H317, H361f.	6%

Section 4 - First Aid Measures

4.1. Description of first aid measures

General: Get medical attention. Show them this datasheet.

Eye Contact: Flush eyes with water as a precaution.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Take victim immediately to hospital.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Ingestion: Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.

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

No data available.

Section 5 – Fire Fighting Measures

5.1. Extinguishing media: Water, Carbon dioxide, Foam, Powder.

5.2. Special hazards arising from the substance or mixture: Carbon oxides, Nitrogen oxides, Hydrogen chloride gas.

5.3. Advice for firefighters: No data available.

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.

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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 contact with skin and eyes. Avoid inhalation of vapours. Keep away from sources of ignition. No smoking. Take measures to prevent the buildup of electrostatic discharge.

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

Physical state and appearance: Liquid.

Odour: Pungent.

Colour: Colourless.

Solubility: Completely miscible in cold water, hot water.

Melting point/ freezing point: -98C

Boiling point: 65C.

Upper/Lower Explosion Limits: 6% - 36%

9.2. Other information: No data available.

Section 10 - Stability and Reactivity Data

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.

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10.4. Conditions to avoid: Heat, flames and sparks.

10.5. Incompatible materials: Oxidising agents, reducing agents, acids, alkali metals.

10.6. Hazardous decomposition products: No data available.

Section 11 - Toxicological Information

11.1. Information on toxicological effects:

Methanol.

LDLO Oral - Human - 143 mg/kg

LD 50 Oral - Rat - 1.187-2.769 mg/kg

LD 50 Dermal - Rabbit - 17.1 mg/kg

Ingestion may cause gastrointestinal irritation, nausea, vomiting or diarrhea. Ingestion may also cause headache, dizziness, drowsiness, metabolic acidosis, coma, seizure.

Methanol may be fatal or cause blindness if swallowed.

Causes damage to organs, but does not target specific organs. Damage to the liver and kidneys may be delayed.

Not recognized as a carcinogen.

2-chloroacetamide

LD 50 Oral - Rat (female) - 138 mg/kg

May cause sensitization by skin contact.

Not recognized as a carcinogen.

Repeated oral exposure may cause: cough, shortness of breath, headache, nausea, vomiting. To the best of the authors knowledge the toxicological properties have not been thoroughly investigated.

Section 12 - Ecological Information

12.1. Toxicity: 2-chloroacetamide is harmful to aquatic life.

12.2. Persistence and degradability: This product is considered to be rapidly biodegradable.

12.3. Bioaccumulative potential: This product contains no substances considered to be persistent or bio accumulative in the environment.

12.4. Mobility in soil: No data available.

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

12.6. Other adverse effects: Methanol -Toxicity to fish - Lepomis macrochirus (Bluegill) - LC50 15.4mg/L - 96h. 2-chloroacetamide - Toxicity to fish - Carassius auratus (goldfish) - LC50 19.8mg/L - 96h. Avoid release into the environment -Methanol BOD - 1.12 mg/g. Methanol COD - 1.42 mg/g.

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.

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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: Other 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.