



## Safety Data Sheet

Date of Issue: 06.09.2021

Date of Expiry: 06.09.2026

### 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Company Name** : ECP Limited  
**Address** : PO Box 34125, Birkenhead, Auckland 0746  
**Telephone** : +64 9 480 4386  
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**Emergency phone number** : 0800 243 622 (24 hours)

|                     |                    |
|---------------------|--------------------|
| <b>Product Name</b> | <b>Methylamine</b> |
| <b>Product Code</b> | <b>33008</b>       |
| <b>CAS No.</b>      | <b>74-89-5</b>     |

**Recommended use** : Laboratory Investigations

### 2: Hazard's identification

#### 2.1 GHS Classification

Flammable liquids, Category 1 H224  
Acute toxicity (oral), Category 4 H302  
Acute toxicity (inhalation: gas) Category 3 H331  
Skin corrosion/irritation, Category 1 H314  
Specific target organ toxicity - Single exposure, Category 3, Respiratory tract irritation H335

#### 2.2 GHS Label elements, including precautionary statements

##### Pictogram



**Signal word** : Danger

##### Hazard statements :

H224 - Extremely flammable liquid and vapour  
H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage  
H331 - Toxic if inhaled  
H335 - May cause respiratory irritation

##### Precautionary statements :

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P260 - Do not breathe dust/fume/gas/mist/vapours/spray  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor/physician.

##### Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

### **Disposal**

P501 - Dispose of contents/ container to an approved waste disposal plant.

### **2.3 Other hazards - none**

## **3: Composition/information on ingredients**

### **3.2 Mixtures**

|                  |   |                   |
|------------------|---|-------------------|
| Synonyms         | : | Monomethylamine   |
| Formula          | : | CH <sub>5</sub> N |
| Molecular weight | : | 31.06 g/mol       |
| CAS-No.          | : | 74-89-5           |
| EC-No.           | : | 200-820-0         |
| Index-No.        | : | 612-001-01-6      |

## **4: First aid measures**

### **4.1. Description of first aid measures**

#### **First-aid measures after inhalation :**

Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Call a POISON CENTER or doctor/physician if you feel unwell.

#### **First-aid measures after skin contact :**

Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.  
Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

#### **First-aid measures after eye contact :**

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

#### **First-aid measures after ingestion :**

Rinse mouth out with water. If you feel unwell, seek medical advice.

### **4.2. Most important symptoms and effects, both acute and delayed**

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye damage.

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

Treat symptomatically.

## **5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

Dry powder Dry sand

Unsuitable extinguishing media

Do NOT use water jet.

### **5.2 Special hazards arising from the substance or mixture**

Carbon oxides

Nitrogen oxides (NO<sub>x</sub>)

### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

### **5.4 Further information**

Use water spray to cool unopened containers.

## **6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

General measures :

Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

#### **6.1.1. For non-emergency personnel**

Emergency procedures :

Evacuate unnecessary personnel.

#### **6.1.2. For emergency responders**

Protective equipment :

Use personal protective equipment as required.

Emergency procedures :

Stop release.

### **6.2. Environmental precautions**

Avoid release to the environment.

### **6.3. Methods and material for containment and cleaning up**

Methods for cleaning up :

Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

### **6.4. Reference to other sections**

No additional information available

## **7: Handling and storage**

### **7.1. Precautions for safe handling**

Additional hazards when processed :

Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling :

No naked lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.

Hygiene measures :

Wash ... thoroughly after handling.

### **7.2. Conditions for safe storage, including any incompatibilities**

Technical measures :

Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/... equipment.

Storage conditions :

Keep in fireproof place. Keep container tightly closed.

Incompatible materials :

Heat sources.

### 7.3. Specific end use(s)

No additional information available

## 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits Table

| Component               | CAS No. | Value   | Control parameters          | Basis  |
|-------------------------|---------|---------|-----------------------------|--|
| Methylamine in solution | 74-89-5 | WES-TWA | 10 ppm 13 mg/m <sup>3</sup> | New Zealand. Workplace Exposure Standards for Atmospheric Contaminants |

### 8.2 Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### Personal protective equipment

Hand protection : protective gloves  
Eye protection : Chemical goggles or safety glasses  
Skin and body protection : Wear suitable protective clothing  
Respiratory protection : Wear respiratory protection

## 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Molecular mass : 31.06 g/mol  
Colour : Clear Colourless.  
Odour : fishy ammoniacal.  
Odour threshold : No data available  
pH : 14 at 100 g/l  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point : -40 °C  
Freezing point : No data available  
Boiling point : 48 °C  
Flash point : -10 °C  
Auto-ignition temperature : 430 °C  
Decomposition temperature : No data available  
Flammability (solid, gas) : Flammable

Extremely flammable liquid and vapour

Vapour pressure : 371 hPa at 20 °C  
Relative vapour density at 20 °C : 1.07  
Relative density : No data available  
Density : 0.9 g/cm<sup>3</sup>  
Solubility : Water: Soluble in water  
Log Pow : -0.713  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosive properties : No data available  
Oxidising properties : No data available  
Explosive limits : 0.052 - 0.264 vol %

### 9.2. Other information

No additional information available

## 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Extremely flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Sparks. Heat. Direct sunlight. Overheating. Open flame.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

May release flammable gases.

## 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity :

Oral: Harmful if swallowed. Inhalation: gas: Toxic if inhaled.

Skin corrosion/irritation :

Causes severe skin burns and eye damage.

pH: 14 at 100 g/l

Serious eye damage/irritation :

Serious eye damage, category 1, implicit

pH: 14 at 100 g/l

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) :

May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) :

Not classified

Aspiration hazard : Not classified

## 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

#### METHYLAMINE FOR SYNTHESIS (74-89-5)

Log Pow : -0.713

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

### 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.

##### Contaminated packaging

Dispose of as unused product.

### 14: Transport Information Table

|      |                                    | ADR/RID –<br>European<br>packaging<br>certification  | IMDG<br>International<br>Maritime<br>Dangerous<br>Goods Code | IATA – DGR<br>International Air<br>Travel<br>Association –<br>Dangerous Goods<br>Regulations |
|------|------------------------------------|--|--|--|
| 14.1 | UN Number                          | 1235   | 1235   | 1235   |
| 14.2 | UN Proper<br>Shipping name         | METHYLAMINE,<br>AQUEOUS<br>SOLUTION  | METHYLAMINE,<br>AQUEOUS<br>SOLUTION                          | Methylamine,<br>aqueous solution   |
| 14.3 | Transport<br>Hazard Class          | 3 (8)  | 3 (8)  | 3 (8)  |
| 14.4 | Packaging<br>group                 | II   | II   | II   |
| 14.5 | Environmental<br>Hazards           | No   | No   | No   |
| 14.6 | Special<br>precautions for<br>user | None   |  |  |
| 14.7 | Incompatible<br>materials          | acids, Acid chlorides, Acid anhydrides, Oxidizing agents,<br>Chloroformates, Phosphorus<br>halides |  |  |
| 14.8 | Hazchem Code                       | .2WE   |  |  |

### 15: Regulatory information

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

##### National regulatory information

HSNO Group Standard Approval: Outside of Group Standard

Tracking Required: 6.1A

Approved Handler Cert.: not required

## 16: Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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