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
Facsimile : +64 9 480 4385
Emergency phone number : 0800 243 622 (24 hours)

Product Name	**Methylamine**
Product Code	**33008**
CAS No.	**74-89-5**

Recommended use : Laboratory Investigations

2: Hazard's identification

2.1 GHS Classification

Flammable liquids, (Category B) H225
Acute toxicity oral, (Category D) H302
Acute toxicity inhalation (Category C) H331
Skin corrosion/irritation, (Category A) H314
Serious eye damage (category A) , H318
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	:	CH5N
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 (NOx)

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/m3	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/cm³
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 – European packaging certification	IMDG International Maritime Dangerous Goods Code	IATA – DGR International Air Travel Association – Dangerous Goods Regulations
14.1	**UN Number**	1235	1235	1235
14.2	**UN Proper Shipping name**	METHYLAMINE, AQUEOUS SOLUTION	METHYLAMINE, AQUEOUS SOLUTION	Methylamine, aqueous solution
14.3	**Transport Hazard Class**	3 (8)	3 (8)	3 (8)
14.4	**Packaging group**	II	II	II
14.5	**Environmental Hazards**	No	No	No
14.6	**Special precautions for user**	None		
14.7	**Incompatible materials**	acids, Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Phosphorus 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

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.

****END*******END*******END*******END*******END****