



Safety Data Sheet

Date of Issue: 05.05.2021

Date of Expiry: 05.05.2026

1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name : **ECP Limited**
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Product	Hexamine			Code	4049
CAS#	HSNO#	UN #	DG Class/es	Packing group #	
100-97-0	HSR007154	1328	4.1	III	

Recommended use : Laboratory Investigations

2: Hazard identification

Environmental Protection Authority – New Zealand

Substance overview Health Hazards
Classification 4.1.1B Readily combustible solids and solids that may cause fire through friction: low hazard
Classification 6.1D (All) Acutely toxic
Classification 6.1D (O) Acutely toxic
Classification 6.3B Mildly irritating to the skin
Classification 6.4A Irritating to the eye
Classification 6.5A Respiratory sensitisers
Classification 6.5B Contact sensitisers
Classification 6.8B Suspected human reproductive or developmental toxicants
Classification 9.3C Harmful to terrestrial vertebrates

GHS Label elements, including precautionary statements



Signal Word : **Danger**

Hazard statement(s)

H228 Flammable solid.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statement(s)

Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

- P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P285 In case of inadequate ventilation wear respiratory protection.

Response

- P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P330 Rinse mouth.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Disposal

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

Other hazards - none

3: Composition/information on ingredients

Names : Hexamine , Methenamine
CAS No : 100-97-0
EC no : 202-905-8
EC index no : 612-101-00-2

4: First aid measures

Description of first aid measures

First-aid measures after inhalation :

- Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact :

- Wash with plenty of soap and water. Get immediate medical advice/attention. Wash contaminated clothing before reuse.

First-aid measures after eye contact :

- Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion :

- Rinse mouth. Get medical advice/attention.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation :

- May cause an allergic skin reaction.

5: Firefighting measures

Extinguishing media

Suitable extinguishing media :

- Water spray. Foam. Dry powder. Carbon dioxide.

Unsuitable extinguishing media :

- Do not use a heavy water stream.

Special hazards arising from the substance or mixture

Fire hazard :

- Flammable solid.

Explosion hazard :

- May form flammable/explosive vapour-air mixture.

Advice for firefighters

Protection during firefighting :

- Do not attempt to take action, without suitable protective equipment.

6: Accidental release measures

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.

For non-emergency personnel

Emergency procedures :

- Evacuate unnecessary personnel.

For emergency responders

Protective equipment :

- Use personal protective equipment as required.

Emergency procedures :

- Ventilate area.

Environmental precautions

- Avoid release to the environment.

Methods and material for containment and cleaning up

Methods for cleaning up :

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

Reference to other sections

- No additional information available

7: Handling and storage

Technical measures :

- Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/... equipment.

Storage conditions :

- Store in a well-ventilated place. Keep container tightly closed.

Incompatible materials :

- Heat sources.

Specific end use(s)

- No data available

8: Exposure controls/personal protection

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection :

- Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

Skin protection :

- Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection :

- Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection :

- Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	:	Solid
Colour	:	White crystalline.
Odour	:	odourless.
Odour threshold	:	No data available
pH	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	280 °C
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	250 °C
Auto-ignition temperature	:	410 °C
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Flammable solid
Vapour pressure	:	< 0.01 hPa at 20°C
Relative vapour density at 20 °C	:	4.9
Relative density	:	No data available
Density	:	1.33 g/cm ³
Solubility	:	Water: Soluble in water
Log Pow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	No data available

Other information

No additional information available

10: Stability and reactivity

Reactivity :

- No additional information available

Chemical stability :

- Flammable solid. May form flammable/explosive vapour-air mixture.

Possibility of hazardous reactions :

- No additional information available

Conditions to avoid :

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

Incompatible materials :

- No additional information available

Hazardous decomposition products :

- May release flammable gases.

11: Toxicological information

Information on toxicological effects

Acute toxicity :

- LD50 Oral - Rat - > 20,000 mg/kg
- LD50 Dermal - Rat - male and female - > 2,000 mg/kg

Skin corrosion/irritation :

- Skin - Rabbit - No skin irritation - 4 h - OECD Test Guideline 404

Serious eye damage/eye irritation :

- Eyes - Rabbit - No eye irritation - OECD Test Guideline 405

Respiratory or skin sensitisation :

- Maximisation Test - Guinea pig - May cause sensitisation by skin contact. - OECD Test Guideline 406

Germ cell mutagenicity :

- Genotoxicity in vitro - Salmonella typhimurium - with and without metabolic activation – negative
- Genotoxicity in vivo - Mouse - male - Oral - negative

Carcinogenicity :

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity :

- No data available

Specific target organ toxicity - single exposure :

- No data available

Specific target organ toxicity - repeated exposure :

- No data available

Aspiration hazard :

- No data available

Potential health effects

Inhalation

- May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion

- May be harmful if swallowed.

Skin

- May be harmful if absorbed through skin. May cause skin irritation.

Eyes

- May cause eye irritation.

Signs and Symptoms of Exposure

- To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

Repeated dose toxicity - Rat - male - Oral - No observed adverse effect level - \geq 80 mg/kg

Repeated dose toxicity - Rat - female - Oral - No observed adverse effect level - \geq 100 mg/kg

RTECS: MN4725000

12: Ecological information

Toxicity

Toxicity to fish

- static test LC50 - *Cyprinodon variegatus* (sheepshead minnow) - 49,000 mg/l - 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

static test EC50 - *Daphnia magna* (Water flea) - 36,000 mg/l - 48 h

Persistence and degradability

- Biodegradability aerobic - Exposure time 28 d Result: 35 % - According to the results of tests of biodegradability this product is not readily biodegradable.
Method: OECD Test Guideline 301D

Bioaccumulative potential

- No data available

Mobility in soil

- No data available

Results of PBT and vPvB assessment

- No data available

Other adverse effects

- No data available

13: Disposal considerations

Waste treatment methods

Product :

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

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	1328	1328	1328
14.2	UN Proper Shipping name	HEXAMÉTHYLNE-TÉTRAMINE	HEXAMETHYLENETETRAMINE	Hexamethylenetetramine
14.3	Transport Hazard Class	4.1	4.1	4.1
14.4	Packaging group	III	III	III
14.5	Environmental Hazards	No	No	No
14.6	Special precautions for user	No data available		

15: Regulatory information

National regulatory information

HSNO Group Standard Approval: HSR007154 - Laboratory Chemicals and Reagent Kits (Class 4) Group Standard 2006

Tracking Required: not required

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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