MediRes Corp.

SAFETY DATA SHEET **Bi2M-RNaseA**

Recombinant RNase A 10 mg per mL

SECTION 1: Identification

Product identifier: Recombinant RNase A 10 mg per mL.

MediRes catalogue number: Bi2M-RNaseA

Pack size: 200 µL enzyme solution.

Recommended use: Enzymatic degradation of RNA during laboratory nucleic-acid preparation.

Restrictions on use: For research use only. Not for diagnostic, therapeutic, food, household or cosmetic use.

Supplier: MediRes Corp., 109 Elm Street, Sudbury, ON P3C 1T4, Canada. Telephone: +1 705-222-2847. Email: sales@medi-res.com.

Emergency telephone: +1 705-222-2847. For exposure or poisoning, contact a poison control centre or emergency medical service.

SECTION 2: Hazards identification

Classification: Aquatic acute hazard, Category 1 (supplemental GHS environmental classification).

Signal word: WARNING

Hazard pictograms

GHS09 Environment

Code	Hazard statement
H400	Very toxic to aquatic life.

Other hazards: Avoid breathing enzyme aerosols. Enzymes may cause sensitization in susceptible individuals; mixture-specific data are not available.

Prevention: P261 - Avoid breathing dust, mist or spray. P264 - Wash thoroughly after handling. P280 - Wear protective gloves, protective clothing and eye protection. P273 - Avoid release to the environment.

Response: Follow the first-aid measures in Section 4. P391 - Collect spillage.

Storage and disposal: P501 - Dispose of contents and container through an approved waste service in accordance with applicable regulations.

Unknown acute toxicity: Percentage of ingredients with unknown acute toxicity is not available.

SECTION 3: Composition and information on ingredients

Enzyme solution and associated dilution buffer. RNase concentration is the supplied product designation (10 mg/mL = 1% w/v); the source MSDS otherwise gives a non-specific <100% upper bound. Other percentages retain the source upper limits and have no stated basis.

Component	Chemical name	CAS No.	Content
G3405-1	Tris base	77-86-1	<20%

Component	Chemical name	CAS No.	Content
G3405-1	Glycerol	56-81-5	<20%
G3405-1	Recombinant RNase A	Not assigned	10 mg/mL nominal
G3405-1	Water	7732-18-5	Balance
G3405-2	Tris base	77-86-1	<20%
G3405-2	Other ingredients	Not specified	Balance

HMIRA exemption: No registry number or exemption details are supplied.

SECTION 4: First aid measures

Inhalation: Remove to fresh air and keep comfortable for breathing. If breathing is difficult or symptoms persist, obtain medical attention. Trained personnel should provide assisted breathing or oxygen when indicated.

Eye contact: Immediately rinse with plenty of water for at least 15 minutes, lifting the eyelids. Remove contact lenses if present and easy to do; continue rinsing. Obtain medical attention if irritation persists.

Skin contact: Remove contaminated clothing. Wash skin thoroughly with soap and water. Obtain medical attention for persistent irritation or rash. Wash contaminated clothing before reuse.

Ingestion: Rinse mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person. Obtain medical advice after significant ingestion or if symptoms occur.

Symptoms and effects: Skin, eye or respiratory discomfort may occur after exposure. Delayed and chronic effects are not established.

Immediate care and treatment: Treat symptomatically and according to exposure. No product-specific antidote is identified. Seek urgent care for significant breathing difficulty.

SECTION 5: Fire fighting measures

Suitable extinguishing media: Use water spray, dry chemical, carbon dioxide or foam appropriate to the surrounding fire.

Unsuitable media: Avoid a solid water jet that may spread spilled material.

Specific fire hazards: Hazardous combustion products may be released in a fire. Product-specific fire and explosion test data are not available.

Firefighter protection: Wear self-contained breathing apparatus and full protective equipment. Cool exposed containers with water spray when safe. Contain contaminated firefighting water.

SECTION 6: Accidental release measures

Personal precautions: Restrict access to trained personnel. Ventilate the area and wear the protection described in Section 8. Avoid contact and aerosol or dust generation.

Containment and cleanup: Stop the leak if safe. Absorb liquid with a compatible inert absorbent. For solid components, collect gently without generating dust. Place waste in closed, labelled, compatible containers. Prevent entry into drains and waterways. Obtain specialist help for large or uncontrolled spills.

SECTION 7: Handling and storage

Safe handling: Use trained laboratory personnel and appropriate ventilation. Avoid inhalation, ingestion and skin or eye contact. Do not eat, drink or smoke during handling. Wash hands after use. Avoid generating aerosols and splashes.

Storage conditions: Store at -20 °C, tightly closed. Avoid heat and unnecessary aerosol generation.

Incompatibilities: Strong oxidizing agents. Additional product-specific incompatibility data are not available.

SECTION 8: Exposure controls and personal protection

Control parameters: Product-specific occupational exposure limits and biological exposure indices are not available.

Engineering controls: Provide adequate ventilation and accessible eyewash and safety-shower facilities. Use local exhaust for operations that generate aerosols or dust.

Skin and hand protection: Wear chemical-resistant gloves and a laboratory coat. Select glove material and replacement interval using the glove manufacturer’s compatibility data for the product and exposure duration.

Eye and face protection: Wear chemical splash goggles. Add a face shield where substantial splashing is possible.

Respiratory protection: Respiratory protection is not a substitute for ventilation. If ventilation cannot control exposure, use an approved respirator selected for the contaminant and workplace exposure. Emergency responders require suitable supplied-air protection.

SECTION 9: Physical and chemical properties

Property	Information
Physical state	Liquid
Colour / appearance	No data available.
Odour	No data available.
Odour threshold	No data available.
pH	No data available.
Melting / freezing point	No data available.
Boiling point / range	No data available.
Flammability	See Section 2; quantitative mixture data are not available.
Lower / upper explosive limits	No data available.
Flash point	No data available.
Autoignition temperature	No data available.
Decomposition temperature	No data available.
Kinematic viscosity	No data available.
Solubility	No data available.
Partition coefficient (n-octanol/water)	No data available.

Property	Information
Vapour pressure	No data available.
Relative density	No data available.
Relative vapour density	No data available.
Particle characteristics	No particle-size data available.

SECTION 10: Stability and reactivity

Reactivity: Strong oxidizing agents. Additional product-specific incompatibility data are not available.

Chemical stability: Stable under the recommended storage conditions.

Possibility of hazardous reactions: No data available.

Conditions to avoid: Excess heat, ignition sources and direct sunlight; avoid contact with incompatible materials.

Hazardous decomposition products: Product-specific data are not available. Hazardous fumes may form during fire or thermal decomposition.

SECTION 11: Toxicological information

Likely exposure routes: Skin and eye contact, accidental ingestion and inhalation of mist, vapour or aerosol.

Endpoint	Information
Acute toxicity	No data available.
Skin corrosion / irritation	No data available.
Serious eye damage / irritation	No data available.
Respiratory / skin sensitization	Enzyme aerosol sensitization is possible; product-specific data are not available.
Germ cell mutagenicity	No data available.
Carcinogenicity	No data available.
Reproductive toxicity	No data available.
STOT, single exposure	No data available.
STOT, repeated exposure	No data available.
Aspiration hazard	No data available.

Immediate and delayed effects: Skin, eye or respiratory discomfort may occur after exposure. Delayed and chronic effects are not established.

Numerical measures: Values stated above are source-reported. Other LD50, LC50 and mixture acute toxicity estimates are not available.

SECTION 12: Ecological information

Ecotoxicity: Very toxic to aquatic life, based on the supplier H400 code. No quantitative aquatic test results or M-factor are available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: No additional data available. Avoid uncontrolled environmental release.

SECTION 13: Disposal considerations

Disposal methods: Collect unused reagent, contaminated absorbent and containers for disposal through an approved laboratory chemical-waste service. Do not discharge to drains. Empty containers may retain residues. Follow applicable local, provincial and federal waste requirements.

SECTION 14: Transport information

Transport status: The supplier reports non-dangerous-goods status under IATA, IMDG and US DOT, while also assigning H400. Transport-specific aquatic hazard criteria and package-exemption details are not available.

UN transport information: UN number, proper shipping name, transport class and packing group: not assigned by the supplier.

Canadian TDG: Canadian TDG classification data are not available.

Environmental transport hazards: Aquatic hazard is communicated in Section 2. Transport-specific criteria and package exemptions are not established in the source.

Special precautions: Transport with ice packs. Keep containers tightly closed and protected from damage.

Transport in bulk under IMO instruments: Not applicable to the packaged laboratory product.

SECTION 15: Regulatory information

Canada: Hazard communication uses the 16-section WHMIS SDS structure. Hazard information is stated in Section 2. Canadian inventory status, product-specific regulatory listings and HMIRA exemption information are not available.

Other jurisdictions: Product-specific regulatory determinations are not available. Research-use designation does not establish an exemption from chemical or transport requirements.

SECTION 16: Other information

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Abbreviations: GHS: Globally Harmonized System; WHMIS: Workplace Hazardous Materials Information System; STOT: specific target organ toxicity; LD50/LC50: median lethal dose/concentration; ATE: acute toxicity estimate; TDG: Transportation of Dangerous Goods; HMIRA: Hazardous Materials Information Review Act.

Disclaimer: This information is intended as guidance for safe handling, use, storage, transport and disposal of the identified material. It is not a warranty or quality specification and may not apply to other formulations, combinations or processes. No batch-specific test data are implied by reference chemical information.

End of Safety Data Sheet