

Safety Data Sheet

Section 1. Identification

Product Name: RNase Away™

Recommended use: Cleaning Agent

Restrictions on use: Use only as directed

Manufacturer Name: Molecular Bio-Products, Inc.

Address: 9389 Waples Street
San Diego, CA 92121

Telephone number: (858) 453-7551

Emergency phone number: 1-800-424-9300 (Chemtrec)

Date of Preparation: November 13, 2015

Section 2. Hazard(s) Identification

GHS Classification (US OSHA Hazcom 2012 (29 CFR 1910.1200):

Physical	Health
None	Skin Corrosion Category 1 Eye Damage Category 1

Warning!



Hazard statements

Causes severe skin burns and eye damage.

Precautionary statements

Do not breathe mists or spray.
Wash thoroughly after handling.
Wear protective gloves, protective clothing, eye protection and face protection.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with soap and water.
Wash contaminated clothing before reuse.
Immediately call a POISON CENTER or doctor.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Immediately call a POISON CENTER or doctor.
IF IN EYES: 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.

Store locked up.

Dispose of contents and container in accordance with local and national regulations.

Section 3. Composition / Information on Ingredients

Chemical name	CAS No.	Concentration
Alkali Hydroxide	Proprietary	<1

The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4. First-Aid Measures

Inhalation: Remove victim to fresh air. If breathing has stopped give artificial respiration. If breathing is difficult have qualified personnel administer oxygen. Get immediate medical attention.

Skin contact: Immediately flush with water for at least 20 minutes, then wash with soap and water until no trace of the chemical remains. Remove contaminated clothing immediately and launder before reuse. Get immediate medical attention.

Eye contact: Immediately flush eyes with water for at least 30 minutes while lifting the upper and lower lids. Get immediate medical attention.

Ingestion: Get immediate medical attention. If conscious, rinse mouth with water and give 1 glass of water to dilute. Do not induce vomiting. Never give anything by mouth to a person who is unconscious or convulsing.

Most important symptoms/effects, acute and delayed: Causes eye and skin burns. Permanent damage may occur. Inhalation of mists may cause severe upper respiratory irritation. High concentrations may cause lung damage. Swallowing may cause burns to the mouth, throat and stomach. Harmful or fatal if swallowed.

Indication of immediate medical attention and special treatment, if necessary: If contact occurs by any route of exposure, get immediate medical attention.

Section 5. Fire-Fighting Measures

Suitable (and unsuitable) extinguishing media: This material is not combustible. Use medical appropriate for the surrounding fire.

Specific hazards arising from the chemical: Combustion may produce carbon and sodium oxides.

Special protective equipment and precautions for fire-fighters: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus. Cool fire exposure containers with water.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Wear appropriate protective clothing and equipment to prevent eye and skin contact.

Environmental precautions: Avoid release to the environment. Report spill as required by local and federal regulations.

Methods and materials for containment and cleaning up: Collect spilled material with inert material and place into a closable container for disposal. Wash spill area with water.

Section 7. Handling and Storage

Precautions for safe handling: Prevent contact with eyes, skin and clothing. Do not breathe spray or mists. Use with adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities. Store in a cool, well-ventilated area away from oxidizing agents. Protect from physical damage.

Section 8. Exposure Controls / Personal Protection

Exposure guidelines:

Alkali Hydroxide	2 mg/m3 Ceiling ACGIH TLV 2 mg/m3 TWA OSHA PEL
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Appropriate engineering controls: For operations where exposures limits are exceeded increased mechanical ventilation such as local exhaust may be required.

Individual protection measures, such as personal protective equipment:

Respiratory protection: None needed under normal use conditions. If significant quantities of mist are generated, an approved dust/mist respirator is recommended. Equipment selection depends on containment type and concentration, select in accordance with local regulations and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

Skin protection: Nitrile, neoprene or other impervious gloves are recommended to prevent skin contact.

Eye protection: Chemical safety goggles and face shield required.

Other: Impervious apron, boots and other clothing are recommended if needed to prevent contact. Eye wash and safety shower should be available if contact may occur.

Section 9. Physical and Chemical Properties

Appearance: Clear liquid

Odor: Slight fragrant odor.

Odor threshold: Not available	pH: 11-12
Melting point/freezing point: ~32°F (~0°C)	Boiling point: ~212°F (~100°C)
Flash point: Not flammable	Evaporation rate: ~1
Flammability (solid, gas): Not applicable	

Flammable limits: LEL: Not applicable	UEL: Not applicable
Vapor pressure: No data available	Vapor density: Not available
Relative density: 1.0	Solubility(ies): Soluble
Partition coefficient: n-octanol/water: Not available	Auto-ignition temperature: Not applicable
Decomposition temperature: Not available	

Section 10. Stability and Reactivity

Reactivity: Not reactive under normal conditions of use.

Chemical stability: Stable.

Possibility of hazardous reactions: None known.

Conditions to avoid: None known.

Incompatible materials: Avoid acids, contact with metals and water reactive materials.

Hazardous decomposition products: Thermal decomposition may yield carbon and sodium oxides.

Section 11. Toxicological Information

Acute effects of exposure:

Inhalation: Mists may cause mucous membrane and upper respiratory tract irritation with coughing, sore throat and difficulty in breathing. High concentrations of mists may cause lung edema.

Skin Contact: Causes severe irritation and burns. Skin damage us severe when tested in a 24 hr skin irritation study with rabbits.

Eye Contact: Causes severe irritation and burns with redness, pain, tearing and swelling. Permanent eye damage and blindness is possible. Eye damage was severe in a 24 hr eye irritation studies with monkeys and rabbits.

Ingestion: Swallowing may cause severe gastrointestinal irritation or burns with nausea, vomiting and diarrhea.

Chronic Effects: Prolonged or repeated exposure to dilute solutions may cause dermatitis.

Sensitization: None of the components are sensitizing to animals or humans.

Germ Cell Mutagenicity: None of the components have been shown to cause germ cell mutagenicity.

Reproductive Toxicity: None of the components have been shown to cause reproductive or developmental toxicity.

Carcinogenicity: None of the components are listed as carcinogens or suspected carcinogens by IARC, NTP, ACGIH or OSHA.

Acute toxicity values:

Acute Toxicity Estimate: Oral 14285 mg/kg Dermal 142,857 mg/kg

Alkali Hydroxide: Oral rat LD50 140 mg/kg, Dermal rabbit LD50 1350 mg/kg

Section 12. Ecological Information

This product is not expected to be harmful to the aquatic environment.

Ecotoxicity values:

Alkali Hydroxide: 48 hr EC50 Ceriodaphnia sp 40.4 mg/L

Persistence and degradability: No data available.

Bioaccumulative potential: No data available. Not expected to be bioaccumulative.

Mobility in soil: No data available.

Other adverse effects: None known.

Section 13. Disposal Considerations

Dispose in accordance with all local, state and federal regulations.

Section 14. Transport Information

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
US DOT		Not Regulated			None
Canadian TDG		Not Regulated			
IMDG		Not Regulated			
EU ADR/RID		Not Regulated			
IATA/ICAO		Not Regulated			

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form.

Special precautions: None known

Section 15. Regulatory Information

Safety, health, and environmental regulations specific for the product in question.

CERCLA Hazardous Substances (Section 103)/RQ: Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for Alkali Hydroxide (1% maximum) of 1,000 lbs, is 100,000 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Acute Health

EPA SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313:
None

California Proposition 65: This product does not contain chemicals regulated under California Proposition 65.

EPA TSCA Inventory: All of the components of this product are listed on the TSCA inventory.

Canadian CEPA: All the components of this product are listed on the Canadian DSL.

Section 16. Other Information

SDS Revision History: All section revised. Converted to GHS format

Date of preparation: November 13, 2015

Date of last revision: August 26, 2014