

Safety Data Sheet

1. Product and Company Identification

Product Identifier: BioRem-2000 Water Treatment – Metal Out
General Use: Designed to reduce metal levels in waste water treatment operations.
Product Description: Amber liquid
Manufacturer: Clift Industries, Inc.
PO Box 471578
Charlotte, NC 28247
704-752-0031

Emergency Telephone
CHEMTREC
800-424-9300

2. Hazards Identification

Classification: Acute toxicity, Oral, Dermal, Inhalation Category 5
Eye Irritation, Category 2B

Signal Word: Warning!



Hazard Statement: H303+H313 Maybe harmful if swallowed, in contact with skin or if inhaled.
+H333
H320 Causes eye irritation.

Precautionary Statements Prevention: P264 Wash hands thoroughly after handling.

Precautionary Statements Response: P304 + 340 **IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing
P301+330+331 **IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.
P303+352 **IF ON SKIN:** Wash with plenty of soap and water.
P305+351+338 **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing.

3. Composition/Information on Ingredients

Ingredients	CAS No.	Weight %
Aqua	7732-18-5	70-90
Microbes	Proprietary	1-5
Enzymes	Proprietary	1-5
Nutrients	Proprietary	1-5

4. First Aid Measures

Eye Contact: Flush eyes for fifteen minutes with water. If irritation persists, contact a physician.

Skin Contact: Wash with soap and water. If irritation persists, contact a physician.

Inhalation: Not normally required. Move to fresh air. If symptoms persist, get medical attention.

Ingestion: Not normally required. Contact a physician if ingested.

5. Fire Fighting Measures

Extinguishing Media: Unused form: Water spray, dry chemical or carbon dioxide.
Used form: That which is compatible to liquid (s) absorbed.

Special Fire Fighting Procedures: None required.

Hazardous Combustion Products: Carbon monoxide and/or carbon dioxide.

Unusual Hazards: None expected. Refer to absorbed liquid(s) MSDS(s). Extreme heat may cause pressure to build up inside drum.

6. Accidental Release Measures

Spill or Leak Procedures: If material is unused, collect and recover for reuse. Wear protective equipment. Not a listed hazardous waste.

7. Handling and Storage

Handling Precautions: Avoid contact with skin and eyes. Do not swallow. Wash hands thoroughly after handling.

Storage Precautions: Store in cool, dry area. Prevent product from freezing. Keep out of reach of children. Shelf life: 3 years as long as the product is kept in a clean, dry environment away from direct sunlight and/or excessive heat.

General: Refer to absorbed liquid(s) MSDS(s). Follow label directions carefully. Make sure all containers are labeled properly. The container can be hazardous when empty. Follow label cautions even after the container is empty. Do not re-use empty containers for food, clothing or products for human or animal consumption, or where skin contact can occur.

8. Exposure Controls/Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

PERSONAL PROTECTION

Eyes: Safety goggles or glass with side shields
Respirator: NIOSH/MSHA approved respirator when ventilation is inadequate.
Gloves: Impervious gloves.
Other: Maintain eyewash and safety shower in work area.

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

EXPOSURE LIMIT 8 hrs. TWA (ppm)
OSHA PEL ACGIH TLV

None

9. Physical/Chemical Characteristics

Appearance: Amber liquid
Odor: Bland
pH: 7
Melting Point/Freezing Point: 32° F (0° C)
Initial Boiling Point and Range: 212° F (100° C)
Flash Point: None **Method:** Not available.
Evaporation Rate: Not established.
Flammable Limits: Not applicable.
Conditions of Flammability: Non-flammable.
Explosive Properties: Not established.
Vapor Pressure: Not available.
Vapor Density: Not established.
Relative Density (H₂O =1): 1.079
Solubility in Water: Soluble
VOC (g/L): 0

10. Stability and Reactivity Data

General: This is a stable material
Conditions of Reactivity: Reacts with sodium hypochlorite or calcium hypochlorite.
Incompatible Materials: Strong oxidants
Conditions to Avoid: Excessive heat or flame.
Hazardous Decomposition: Not established.
Hazardous Polymerization: Will not occur.

11. Toxicological Data

LD50: Not established.
LC50: Not established.

Carcinogenicity: IRAC: None
National Toxicology Program: None
OSHA: None
California Prop 65: No listed ingredient

Reproduction Toxicity: Not available
Teratogenicity: Not available
Mutagenicity: Not available
Synergistic Products: Not available

12. Ecological Data

No data available

13. Disposal Considerations

Waste Disposal Method: Observe all federal, state and local regulations.

14. Transport Information

D.O.T. (Department of Transportation):
Proper Shipping Name: Non-hazardous liquid
Hazard Class: Not regulated
Identification Number: Not applicable

15. Regulatory Information

CERCLA (Comprehensive Environmental Response Compensation and Liability Act): No Reportable Quantity
OSHA Hazard Communication Standard, 28 CFR 1910.1200: No hazardous ingredient.
SARA Title III (Superfund Amendments and Reauthorization Act): No listed ingredient.
TSCA (Toxic Substances Control Act): All ingredients are listed.

16. OTHER INFORMATION:

NFPA Hazard Rating: Health – 1
None → Extreme Fire – 0
0 → 4 Reactivity – 0
PPE – B

Reason for Issue: GHS changes to Sections 2 & 3.
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Approved by: C. Matthews
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