



MATERIAL SAFETY DATA SHEET

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1. PRODUCT AND COMPANY IDENTIFICATION

FOR MEDICAL AND TRANSPORTATION EMERGENCIES
 24 Hour INFOTRAC (US and CANADA): 800-535-5053

PRODUCT NAME
 UNITED 339 CYCLE SMART STABILIZED BROMINE TREATMENT

USE/DESCRIPTION
 Cycle Smart Stabilized Bromine Treatment Industrial Water Treatment

REVISION DATE
 April 9, 2010

HMIS III HEALTH (0 = Maximum Safety) 3

Always follow Label Directions and Cautions.

* Chronic 2 Moderate
 4 Severe 1 Slight
 3 Serious 0 Minimal
See Hazards Identification Section of this MSDS for more detailed information.

PHYSICAL HAZARD (0 = Maximum Safety) 1

Susceptible to Release of Energy.

4 May detonate-vacate area if materials are exposed to fire. 2 Violent chemical change possible-use hose stream from distance
 3 Strong shock of heat may detonate-use monitors from behind explosion resistant barriers. 1 Unstable if heated-use precaution.
0 Normally stable.

FLAMMABILITY (0 = Maximum Safety) 0

Susceptibility of Material to Burning.

4 Extremely flammable. 1 Must be preheated to burn.
 3 Ignites at normal temperature. 0 Will not burn.
 2 Ignites when moderately heated.

PERSONAL PROTECTION: n & D



2. COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Ingredients | CAS# | %Range | ACGIH (TLV-TWA) | OSHA (PEL-TWA) | LD50 (Species/Route) | LC50 (Species) |
|-----------------------|-----------|--------|-----------------|----------------|----------------------|----------------|
| Sodium Hydroxide | 1310-73-2 | 0 - 10 | NE | 2 mg/m3 | NE | NE |
| Sodium hypochlorite | 7681-52-9 | 6 - 8 | NE | NE | NE | NE |

3. HAZARDS IDENTIFICATION

Eyes: Corrosive. Will cause eye burns and may cause permanent tissue damage.

Skin: May cause severe irritation or tissue damage depending on the length of exposure and the type of first aid administered.

Inhalation: High mist concentrations may cause irritation to the eyes, nose, throat and respiratory tract.

Ingestion: Corrosive; causes chemical burns to the mouth, throat and stomach.

4. FIRST AID MEASURES

Eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation: Remove person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment.

Ingestion: DO NOT induce vomiting. Dilute by drinking several glasses of water. Never give anything by mouth to an unconscious victim. Call a physician or poison center immediately.

5. FIRE FIGHTING MEASURES

Flash Point (TCC): Non-Flammable

Explosive Limits: Lower (LEL): NA Upper (UEL): NA

Flame Projection (Aerosol): NA

Hazardous Products of Combustion: When strongly heated, as in a fire, this product may toxic gases, vapors, & fumes of chlorine.

Fire and Explosion Hazards: None known.

Extinguishing Media: Use fire-extinguishing media appropriate for surrounding materials.

Fire Fighting Instructions: Wear self-contained breathing apparatus w/full protective clothing. Do not release runoff from fire control methods to sewers or waterways.

6. ACCIDENTAL RELEASE MEASURES

Small Spills: Absorb spill in vermiculite, dry sand or earth and then place into appropriate containers for disposal.

Large Spills: Restrict access to area as appropriate until clean-up is complete. Wear protective clothing as described in Section 8. Spills should be collected to prevent contamination of waterways. Dike spill and recover quickly into suitable containers. Absorb spill with non-reactant absorbent like vermiculite, dry sand or earth. Containers with collected spillage must be properly labeled with correct contents and hazard symbol.

7. HANDLING AND STORAGE

Keep this product in a properly labeled, tightly closed container. Store away from incompatible materials. Do not get in eyes, on skin, on clothing. Use with adequate ventilation. Avoid generating aerosols and mists. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Do not allow this product to freeze, as containers may split or rupture. Wash hands and face with soap and water after using this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Use safety goggles and face shield in case of splash risk.

Skin: Rubber, neoprene or PVC gloves provide short term splash protection are recommended.

Respiratory: Use with adequate ventilation and avoid breathing vapors. In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory with combination filter (type A2/P2).

Engineering Controls: Provide adequate general and local exhaust ventilation.

Other Protective Clothing: Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.

Safety Stations: Emergency eye wash stations and shower facilities near the work place.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: ND **Specific Gravity:** 1.20 to 1.30 (H₂O=1) **Vapor Pressure:** ND **Melting Point:** ND
Vapor Density: ND **Evaporation Rate:** ND **Solubility in Water:** ND **pH:** 12.5 – 13.7
Appearance and Odor: Light yellow liquid with slight chlorine scent.

10. STABILITY AND REACTIVITY

Hazardous Polymerization: Will not occur.

Hazardous Decomposition: When heated strongly, as in a fire, this product may produce toxic gases, vapors and fumes of chlorine.

Chemical Stability: Stable

Incompatibility: Avoid contact with acids and strong reducing agents. Avoid excessive heat for prolonged period of time.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity (NTP/IARC/OSHA): None

California Proposition 65: Does this product contain chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm? None

12. ECOLOGICAL INFORMATION

ND

13. DISPOSAL CONSIDERATIONS

Consult your local, state and federal regulations for proper disposal guidelines. Disposal regulations may be different for each state and/or locality.

14. TRANSPORT INFORMATION

DOT: Available upon request

TDG: Available upon request

UN: Available upon request

15. REGULATORY INFORMATION

VOC(Volatile Organic Compounds): None

TSCA (Toxic Substances Control Act): Listed

SARA Title III Section 302 EHS: ND

SARA Title III Section 311/312: ND

SARA Title III Section 313 Toxic Chemicals: None

WHMIS Classification:

This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations/ WHMIS) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

Read and follow all label directions and precautions before using this product. These products are intended for industrial and institutional use only. NOT FOR HOUSEHOLD USE OR RESALE. KEEP OUT OF REACH OF CHILDREN.