

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION	
NFPA Rating: Health-2; Flammability-0; Reactivity-0; Specific Hazard-COR Manufacturer's Name: H&B Industries, Inc. Address: 9758 Abernathy Ave. Dallas, TX 75220	HMIS Rating: Health-2; Flammability-0; Reactivity-0; Personal Protection-B DOT Hazard Classification: Corrosive Liquid, N.O.S. 8 Identity (trade name as used on label): HB-747 Closed Loop Treatment
Date Prepared: 02/05/05 Prepared By: E.D. Information Calls: 1(800)466-0855 EMERGENCY RESPONSE NUMBER: 1(800)535-5053	MSDS Number: HB-747 Revision - 4 NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION					
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
SODIUM NITRITE	7632-00-0	No	N/E	N/E	d
SODIUM HYDROXIDE	1310-73-2	No	2mg/m3	2mg/m3	d

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS	
Boiling Point: 100°C	Specific Gravity (H2O=1): 1.18
Vapor Pressure: PSIG @ 70°F (Aerosols): N/A	Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): Not known
Vapor Density (Air = 1): .62	Evaporation Rate (water = 1): 1.0
Solubility in Water: Miscible	Water Reactive: No
Appearance and Odor: Water based, clear, red, non-viscous liquid with no odor.	

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA			
FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) N/A	Auto Ignition Temperature N/A	Flammability Limits in Air by % in Volume: % LEL: N/A % UEL: N/A	
FLASH POINT AND METHOD USED (non-aerosols): Non-combustible		EXTINGUISHER MEDIA: Non-combustible. Use media appropriate for surrounding fire.	
SPECIAL FIRE FIGHTING PROCEDURES: See below. Use NIOSH approved self-contained breathing apparatus.			
Unusual Fire & Explosion Hazards: Temperatures above 320°C will release oxides of nitrogen, which are toxic & are oxidizers & leave a caustic residue.			

SECTION 4 - REACTIVITY HAZARD DATA	
STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE	HAZARDOUS POLYMERIZATION <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR
Incompatibility (Mat. to avoid): Contact with acids & reducing agents.	Conditions to Avoid: Excessive temperatures.
Hazardous Decomposition Products: If heated to decomposition, toxic oxides of nitrogen & boron may result. Nitrogen oxides are oxidizers. Residue may be caustic.	

SECTION 5 - HEALTH HAZARD DATA	
PRIMARY ROUTES OF ENTRY: <input type="checkbox"/> INHALATION <input checked="" type="checkbox"/> INGESTION <input type="checkbox"/> SKIN ABSORPTION <input checked="" type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS	
ACUTE EFFECTS: Alkaline solution is corrosive to all body tissues.	
Inhalation: Inhalation of spray or mist will cause respiratory tract irritation.	
Eye Contact: Will cause tissue damage.	Skin Contact: Prolonged contact will cause damage.
Ingestion: Corrosive and prolonged contact will cause damage to esophagus.	
CHRONIC EFFECTS: None known.	
Medical Conditions Generally Aggravated by Exposure: Strong irritant to existing cuts and abrasions on contact.	

EMERGENCY FIRST AID PROCEDURES	
Eye Contact: Flush with water for 15 minutes. If irritation persists, get medical attention.	
Skin Contact: Wash with soap and water. If irritation persists or ulceration develops, get medical attention.	
Inhalation: Remove to fresh air. If irritation persists, get medical attention.	
Ingestion: DO NOT INDUCE VOMITING. Drink large quantity of water. Get immediate medical attention.	

SECTION 6 - CONTROL AND PROTECTIVE MEASURES	
Respiratory Protection (specify type): None normally needed.	
Protective Gloves: Rubber, if desired.	Eye Protection: Goggles or face shield.
Ventilation Requirements: Normal ventilation is adequate.	
Other Protective Clothing & Equipment: Eyewash station and safety shower.	
Hygienic Work Practices: Do not eat, drink or smoke in work area. Wash hands after handling, before using restroom facilities.	

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE	
Steps To Be Taken If Material Is Spilled Or Released: DO NOT drain into sewers or surface waters. Soak up in absorbent material & seal in properly labeled non-leaking containers for proper authorized hazardous waste disposal.	
Waste Disposal Methods: Dispose of in authorized waste disposal facility in accordance with all local, state and federal regulations.	
Precautions To Be Taken In Handling & Storage: Store in original container. Keep container sealed when not in use. Shelf life one year. Protect from extreme cold.	
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Read and follow label directions.	

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only