

MATERIAL SAFETY DATA SHEET

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

IDENTIFICATION AND MANUFACTURER'S NFPA Rating: Health-1; Flammability-0; Reactivity -0; Special -	INFORMATION HMIS Rating: Health-1; Flammability-0; Reactivity -0; Personal Protection-B
Manufacturer's Name: H & B Industries, Inc. Address: 9758 Abernathy Ave. Dallas, TX 75220	DOT Hazard Classification: Non-Regulated Identity (trade name as used on label): HB-30 HD SYNTHETIC COOLANT
Date Prepared: 02/05/2005 Prepared By: ED	MSDS Number: HB-30 Revision - 2
Information Calls: (800) 466-0855 EMERGENCY RESPONSE NUMBER: (800) 535-5053	NOTICE: JUDGMENT 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 **
Triethanolamine	102-71-6	No	25(skin)	25(skin)	
Sodium Nitrite	7632-00-0	No	NE	NE	
Diethanolamine	111-42-2	No	3 ppm	3 ppm	

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 100°C	Specific Gravity (H2O=1): 1.1
Vapor Pressure: PSIG @ 70°F (Aerosols): N/A	Vapor Pressure (Non-Aerosols)(mm Hg and Temperature ND
Vapor Density (Air = 1): <1	Evaporation Rate (water = 1): 1
Solubility in Water: Completely	Water Reactive: No

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) N/A FLASH POINT AND METHOD USED (non-aerosols): Non-combustible. SPECIAL FIRE FIGHTING PROCEDURES: Non-combustible. Use procedures applicable to surrounding fire. Unusual Fire & Explosion Hazards: None identified.	Auto O	AND EXPLOSION HAZARD DATA Ignition Temperature N/A EXTINGUISHER MEDIA: surrounding fire. Flammability Limits in Air by % in Volume: % LEL: N/A % UEL: N/A Use media compatible with
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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): Strong acids, strong oxidizers.	Conditions to Avoid: Temperature above 320 C
Hazardous Decomposition Products: Oxides of carbon, nitrogen, phosphorus, unidentified organic compounds.	

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: <input type="checkbox"/> INHALATION <input type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN ABSORPTION <input checked="" type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS	
ACUTE EFFECTS	
Inhalation: Inhalation of spray or mist is severely irritating to respiratory tract & mucous membranes. Prolonged contact may cause tissue damage or destruction.	
Eye Contact: Severely irritating. Prolonged contact may cause tissue damage or destruction.	
Skin Contact: Irritating. Prolonged contact may cause dermatitis.	
Ingestion: Severely irritating.	
CHRONIC EFFECTS: Effects due to excessive exposure to the raw materials of this mixture) May cause damage to nasal & respiratory passages, throat & esophagus. Lab animals have experienced anemia, liver, kidney, lung, and blood damage with exposure to 2-butoxyethanol.	
Medical Conditions Generally Aggravated by Exposure: Pre-existing irritation may be aggravated by contact.	

EMERGENCY FIRST AID PROCEDURES

Eye Contact: Flush with water for 15 minutes. If irritation persists, get medical attention.
Skin Contact: Rinse off thoroughly with water. If irritation persists, get medical attention.
Inhalation: Remove to fresh air. If irritation persists or other symptoms develop, get medical attention.
Ingestion: DO NOT INDUCE VOMITING. Give large quantities of water. Follow with milk or olive oil. Get immediate medical attention..

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (specify type): None normally required.	Eye Protection: Goggles or safety glasses.
Protective Gloves: Chemical resistant (butyl rubber, neoprene)	
Ventilation Requirements: Normal ventilation is generally adequate.	
Other Protective Clothing & Equipment: Eye bath & safety shower. Rubber boots & splash apron, if splashing is a problem.	
Hygienic Work Practices: Do not eat, drink or smoke in work area. Wash exposed skin after use.	

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken If Material Is Spilled Or Released: Avoid eye or skin contact. Contain spill & carefully neutralize with acetic acid. Soak up in absorbent material & place in properly labeled non-leaking containers for proper disposal.
Waste Disposal Methods: Dispose of in accordance with all local, state and federal regulations.
Precautions To Be Taken In Handling & Storage: Store in original shipping containers. Keep closed when not in use. Shelf life 1 year. Protect from extreme heat and cold.
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Read & 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