# **MATERIAL SAFETY DATA SHEET**

SECTION 1 CHEMICAL PRODUC	T AND COMPANY INFO	RMATION			
Product Name: Hydro-Balance Black Max Product Number(s): H-BM32, H-BM01, H-BM05, H-BM55 Product Use: Air conditioning components cleaner				Date PreparedMar. 24, 2010ReplacesMay 15, 2009	
Company Name: North American I P.O. Box 1318 Lewisville, TX 75	Research Corporation				
Telephone Numbers: (972) 492-1800 Emergencies: Infotrac (800) 535-505		72) 394-6755			
SECTION 2 COMPOSITION / INF	ORMATION ON INGRED	IENTS			
OSHA Hazardous Components (29 C	FR 1910.1200):				
	CAS <u>Registry No.</u>	OSHA PEL	ACGIH TLV	Other Limits	
Potassium Hydroxide	1310-58-3	2 mg/m <sup>3</sup> Ceiling	2 mg/m <sup>3</sup> Ceiling	None known	
Sodium Hydroxide	1310-73-2	2 mg/m <sup>3</sup> Ceiling	2 mg/m <sup>3</sup> Ceiling	None known	<5
SECTION 3 HAZARDS IDENTIFIC	CATION				
EMERGENCY OVERVIEW					
POISON! DANGER! CORR OR FATAL IF SWALLOWEI		E BURNS TO SKIN	, EYES, AND OTHE	ER BODY TISSU	JE. HARMFUL
POTENTIAL HEALTH EFFECTS					
EYE CONTACT: Corrosive. Ma	ay cause permanent dama	age including blindn	ess.		
SKIN CONTACT: Corrosive. Ma	ay cause permanent dama	age.			
INHALATION: May cause irr avoided by se	itation and corrosive effect elf-limiting coughing and s		at, and respiratory to	act. Severe inju	ry is usually
INGESTION: Corrosive. Ma	ay cause burns to mouth,	throat, and stomach			
CHRONIC EXPOSURE: No known c	hronic effects.				
MEDICAL CONDITIONS AGGRAVA	TED BY EXPOSURE: No		-	ders.	
CARCINOGENICITY: NTP? No	IARC Monographs? N	o OSHA Regu	lated? No		
SECTION 4 FIRST-AID MEASUR	ES				
EYE CONTACT: Immediately f immediately.	lush eyes with running wa	ater for at least 15 m	inutes, keeping eye	elids open. Get n	nedical attention
SKIN CONTACT: Flush immedi	ately with plenty of water	for at least 15 minut	es. Get medical atte	ention immediate	ely.
INHALATION: If breathing is	difficult: Remove to fresh	n air. Get medical att	ention immediately.		
	person. Get medical atter		of water. Never give	e anything by mo	buth to an
SECTION 5 FIRE-FIGHTING MEA	SURES				
FLASHPOINT: Not flammable	IETHOD: Not applicable				
FLAMMABLE LIMITS: LEL: Not	applicable UEL: N	Not applicable AU	TOIGNITION TEMP	P: Not applicable	e
GENERAL HAZARD: Not considered hydrogen gas.	to be a fire hazard. Will r	eact with some meta	als, eg. Aluminum, t	in, zinc to form f	lammable
FIRE EXTINGUISHING MEDIA: Use containers cool.	means suitable for exting	uishing surrounding	fire. Water spray m	ay be used to ke	eep fire-exposed
SPECIAL INFORMATION: Corrosive	material. See sections 8	and 10.			
SECTION 6 ACCIDENTAL RELEA	ASE MEASURES				
PERSONAL PRECAUTIONS: Put on	appropriate personal pro	tective equipment.			
ENVIRONMENTAL PRECAUTIONS	AND CLEAN-UP:				
Small spills: Mop up or soak up	with rags and flush with w	vater.			
In the event of major spillage: Us much as possible. Pump, sw					

proper methods. Use a water rinse for final clean-up.

# SECTION 7 STORAGE AND HANDLING

HANDLING: Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Avoid breathing vapors or spray mists. Wash thoroughly after handling. Remove and wash contaminated clothing and footwear before reuse. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. FOR INDUSTRIAL USE ONLY.

STORAGE: Keep tightly closed in original container. Store in a cool, dry, ventilated area. Protect against physical damage. Tip: For transport on service truck, place container inside of plastic pail and immobilize pail.

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS: Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.

PERSONAL PROTECTION:

EYES: Chemical splash goggles.

HANDS: Chemical resistant gloves; rubber, neoprene, or other impervious material.

RESPIRATORY: If mists/vapors are not adequately controlled by ventilation, use appropriate respiratory protection to avoid over exposure. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

FEET: Chemical resistant boots; rubber, neoprene, or other impervious material.

BODY: If major exposure is possible, wear suitable, impervious protective clothing.

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Heavy black liquid. Caustic/bland odor.

VAPOR PRESSURE: Not determined

SOLUBILITY IN WATER: Complete

BOILING POINT: Initial 212°F

EVAPORATION RATE (Butyl Acetate = 1): >1

### SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable under ordinary conditions of use and storage. HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (Materials to Avoid): Reactive with oxidizing agents, acids, chlorinated hydrocarbons, acetone. Will react with some metals, e.g., aluminum, tin, zinc, to form flammable hydrogen gas.

HAZARDOUS DECOMPOSITION PRODUCTS: When exposed to fire, produces normal products of combustion.

#### SECTION 11 TOXICOLOGICAL INFORMATION

For Potassium Hydroxide (1310-58-3): Oral LD50 (rat): 365 mg/kg. Primary skin irritation: (rabbit, 24hr) severe. Primary eye irritation: (rabbit, 24hr) severe.

#### SECTION 12 ECOLOGICAL INFORMATION

For Potassium Hydroxide (1310-58-3): LC50 (96hr) Fathead minnow, 45% KOH solution = 179 mg/L.

#### SECTION 13 DISPOSAL CONSIDERATIONS

Disposal of unused product is regulated under environmental and transportation laws as a corrosive waste. Dispose of container and unused contents in accordance with federal, state, and local requirements.

#### SECTION 14 TRANSPORT INFORMATION

U.S. Department of Transportation:

Potassium Hydroxide Solution, 8, UN1814, PG II

Consumer Commodity ORM-D: (For U.S., domestic, ground shipments of packages no more than 66 pounds, gross weight, and inner packages not over 0.3 gallons.)

#### SECTION 15 REGULATORY INFORMATION

TSCA: All ingredients of this product are listed or are excluded from listing on the U.S. TSCA chemical substances inventory. CERCLA: Potassium Hydroxide (1310-58-3); RQ 1000 lbs.

SARA TITLE III: Section 311/312 Hazard Category: Acute: Yes Chronic: No Fire: No Pressure: No Reactive Hazard: Yes

# Section 313 Reportable Ingredients: None

## SECTION 16 OTHER INFORMATION

NFPA RATING: Health – 3, Flammability – 0, Reactivity – 1

HMIS<sup>®</sup> RATING: Health – 3, Flammability – 0, Reactivity – 2

HMIS<sup>®</sup> ratings are to be used with a fully implemented HMIS<sup>®</sup> program. HMIS<sup>®</sup> is a registered mark of the National Paint and Coatings Association (NPCA).

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SPECIFIC GRAVITY: 1.42 VAPOR DENSITY: Not determined pH: 14 FREEZING / MELTING POINT: Not determined