

## MATERIAL SAFETY DATA SHEET

### SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Hydro-Balance Z150 Alkylbenzene Refrigeration Oil	Date Prepared	Sep. 19, 2008
Product Number(s): Z150 01	Replaces	Apr. 12, 2000
Product Use: Synthetic Alkylbenzene compressor lubricant		
Company Name: North American Research Corporation		
P.O. Box 1318		
Lewisville, TX 75067		
Telephone Numbers: (972) 492-1800, (800) 527-7520, Fax (972) 394-6755		
Emergencies: Infotrac (800) 535-5053 (24 hours, everyday)		

### SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

	<u>CAS Registry No.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other Limits</u>	<u>% (Optional)</u>
Alkylate	68855-24-3	5 mg/m <sup>3</sup> (oil mist)	5 mg/m <sup>3</sup> (oil mist)	None	

### SECTION 3 HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Not expected to cause a severe emergency hazard. Use of adequate ventilation will avoid aspiration of oil mists. Wash skin after contact; prolonged contact with any oils can cause irritation in some individuals.

#### POTENTIAL HEALTH EFFECTS

**PRIMARY ROUTE(S) OF ENTRY:** Skin

**INHALATION:** No acute effects are expected in normal use.

**SKIN:** No significant adverse health effects are expected to occur upon short-term exposure.

**EYES:** Tests on similar materials suggest that no eye effect be expected.

**INGESTION:** No significant adverse health effects expected. Practically non-toxic.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Personnel with pre-existing skin disorders should avoid contact with this product

**CHRONIC EFFECTS:** Prolonged and/or repeated contact with this material may produce irritation and inflammation. Not listed as a carcinogen by NTP, IARC, OSHA, or ACGIH. This product does not require a cancer hazard warning in accordance with the OSHA Hazard Communication Standard.

### SECTION 4 FIRST AID MEASURES

**INHALATION:** Not likely to occur except as mist. Remove patient to fresh air and consult a physician. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

**SKIN:** Remove contaminated clothing and shoes. Thoroughly wash contact area with soap and water. Get medical attention if irritation or rash develops. Wash clothing before reuse.

**EYES:** Immediately flush eyes with large amounts of water for at least 15 minutes while frequently lifting the upper and lower eyelids. If irritation persists, call a physician.

**INGESTION:** Product is practically non-toxic. DO NOT induce vomiting. Contact a physician or emergency medical facility immediately.

### SECTION 5 FIRE-FIGHTING MEASURES

**FLASHPOINT:** >311°F (155°C)    **METHOD:** Not specified    **LEL:** Not determined    **UEL:** Not determined

**FLAMMABILITY CLASS:** IIIB

**AUTOIGNITION TEMP:** Not determined

**EXTINGUISHING MEDIA:** Dry chemical, carbon dioxide, water fog and foam. NOTE: Water fog and foam may cause frothing and spattering

**HAZARDOUS COMBUSTION PRODUCTS:** Fumes, smoke, and carbon monoxide.

#### FIRE FIGHTING INSTRUCTIONS

Use flooding quantities of water as fog or spray to keep fire-exposed containers cool. Firefighters should wear self-contained breathing apparatus.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Shut off ignition sources. Contain spill and keep from entering waterways or sewers. Use personal protective equipment. Absorb with inert material. Shovel, sweep, or vacuum spill.

### SECTION 7 STORAGE AND HANDLING

#### STORAGE CONDITIONS:

Store in labeled, sealed containers in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Do not remove or deface label. Do not reuse containers.

**HANDLING PROCEDURES:**

Wash hands before eating, drinking, or using the restroom. Any clothing or shoes which become contaminated should be removed immediately and thoroughly washed before wearing again.

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

EXPOSURE LIMITS: 5 mg/m<sup>3</sup> for oil mist

RESPIRATORY PROTECTION: Normally not required. If used where mist may occur at high levels, use NIOSH/MSHA approved apparatus.

EYE PROTECTION: Wear safety glasses. Have suitable eyewash water available.

SKIN PROTECTION: Avoid prolonged and/or repeated contact. If prolonged contact cannot be avoided, wear protective impervious gloves and clothing. Acceptable materials for gloves are PVC, Neoprene, Nitrile, Polyvinyl Alcohol, or Viton.

ENGINEERING CONTROLS (Ventilation): Use adequate ventilation to keep oil mist below 5 mg/m<sup>3</sup>. Normally not required.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR: Clear, pale, straw-colored liquid; light bland petroleum odor.

SPECIFIC GRAVITY: 0.87

pH: Not applicable

MELTING POINT: Not applicable

VAPOR PRESSURE: Not determined

SOLUBILITY IN WATER: Negligible

VAPOR DENSITY: Not determined

BOILING POINT: 599°F (315°C)

EVAPORATION RATE: Not determined

VISCOSITY: 150 SUS @ 100°F (40°C)

PERCENT VOLATILES: Not determined

**SECTION 10 STABILITY AND REACTIVITY**

STABILITY: Stable

CONDITIONS TO AVOID: Ignition sources (sparks, open flame, heated surfaces).

INCOMPATIBILITY (Materials to Avoid): Strong oxidizers.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion may produce carbon monoxide and other asphyxiants.

**SECTION 11 TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY: Minimal irritation on contact.

CHRONIC TOXICITY: This product has not been found to be carcinogenic or a potential carcinogen. It is not listed by NTP, IARC, OSHA, or ACGIH. Nevertheless, good industrial hygienic practices are recommended.

**SECTION 12 ECOLOGICAL INFORMATION**

No specific data are available.

**SECTION 13 DISPOSAL CONSIDERATIONS**

Dispose of in accordance with federal, state, and local regulations. Not an RCRA hazardous waste if uncontaminated. If used, RCRA criteria must be determined.

**SECTION 14 TRANSPORT INFORMATION**

U.S. Department of Transportation:

Not regulated

**SECTION 15 REGULATORY INFORMATION**

TSCA: All components of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CERCLA: No reportable ingredients

SARA TITLE III:

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

Section 313 Reportable Ingredients: None

CALIFORNIA (Proposition 65): No reportable ingredients.

**SECTION 16 OTHER INFORMATION**

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

HMIS<sup>®</sup> RATING: Health – 0, Flammability – 1, Reactivity – 0

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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