MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification
Product Name: Hydro-Balance Z 150 Alkylbenzene Refrigeration Oil
Product Number(s): Z150 01
Product Category: Synthetic Compressor Lubricant

Date Prepared: 04/12/00
Supersedes: 10/15/92

Company Identification
North American Research Corporation
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Transportation Emergencies: Infotrac (800) 535-5053

SECTION 2 HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>% (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkylaryl Hydrocarbon</td>
<td>68855-24-3</td>
<td>N.E.</td>
<td>N.E.</td>
<td></td>
</tr>
</tbody>
</table>

No hazardous ingredients as defined in 29 CFR 1910.1200

SECTION 3 PHYSICAL/CHEMICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>314°C</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg.)</td>
<td>&lt; 0.001</td>
<td></td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Insoluble</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.87</td>
<td></td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
<td></td>
</tr>
</tbody>
</table>

Odor: Slight hydrocarbon
Appearance: Water-white to yellowish amber oily liquid
Melting Point: Not applicable
pH: Not Applicable
Viscosity: 150 SUS @ 100°F

SECTION 4 FIRE and EXPLOSION HAZARD DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable Properties</td>
<td>Flash Point: 175°C COC</td>
</tr>
<tr>
<td>Flammable Limits in Air</td>
<td>LEL: Unknown</td>
</tr>
<tr>
<td></td>
<td>UEL: Unknown</td>
</tr>
</tbody>
</table>

Extinguishing Media: CO₂, dry chemical, foam, water fog

Special Fire Fighting Procedures: Cool exposed equipment with water spray. Firefighters and others exposed to vapors or products of combustion should use self-contained breathing apparatus and wear full protective clothing.

Unusual Fire and Explosion Hazards: None known

SECTION 5 REACTIVITY DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>Stable</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>None known</td>
</tr>
<tr>
<td>Incompatibility (Materials to Avoid)</td>
<td>May react with strong oxidizing materials</td>
</tr>
<tr>
<td>Hazardous Decomposition or Byproducts</td>
<td>None. Normal combustion forms carbon dioxide and water vapor; incomplete combustion can produce carbon monoxide.</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>Will not occur</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>None known</td>
</tr>
</tbody>
</table>
## SECTION 6  HEALTH HAZARD DATA

<table>
<thead>
<tr>
<th>Routes of Entry:</th>
<th>Inhalation? X</th>
<th>Skin? X</th>
<th>Ingestion? X</th>
</tr>
</thead>
</table>

**Health Hazards (Acute and Chronic):** Mild eye irritant. Avoid breathing vapors or mist. No known chronic effects.

**Carcinogenicity:**
- NTP?: No
- IARC Monographs?: No
- OSHA Regulated?: No

**Signs and Symptoms of Exposure:**
- **Inhalation:** Under normal use conditions, this product is not an inhalation hazard.
- **Eyes:** Minor eye irritant. Avoid contact as good industrial practice.
- **Skin:** May cause irritation on repeated or prolonged contact.
- **Ingestion:** May cause nausea. Not expected to be acutely toxic by ingestion.

**Medical Conditions Generally Aggravated by Exposure:** None known.

**Emergency and First Aid Procedures:**
- **Inhalation:** Remove to fresh air. If not breathing, give artificial respiration and seek medical attention.
- **Eyes:** Immediately flush eyes with water for 15 minutes.
- **Skin:** Remove contaminated clothing. Wash skin thoroughly with soap and water. Launder contaminated clothing before reuse. Consult a physician if irritation persists.
- **Ingestion:** If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician.

## SECTION 7  PRECAUTIONS for SAFE HANDLING and USE

**Steps to Be Taken in Case Material is Released or Spilled:** This material is not expected to present any environmental problems other than those normally associated with oil spills. Contain spills and leaks to prevent discharge to the environment. Absorb spillage with inert material, then place in a chemical waste container. For large spills, dike for later disposal.

**Waste Disposal Method:** Dispose of in accordance with federal, state, and local regulations. Conditions of use may render the spent product as hazardous waste.

**Precautions to Be Taken in Handling and Storing:** Keep containers tightly closed to avoid moisture contamination from the air.

**Other Precautions:** Empty containers contain vapor and product residue and can present fire or explosion hazard. Do not cut or weld near containers.

## SECTION 8  CONTROL MEASURES

**Respiratory Protection:** Not required for normal use. If mists or vapors occur at excessive levels, use NIOSH/MSHA approved respiratory equipment.

**Ventilation:** Normal ventilation is adequate for normal use.

**Protective Gloves:** Rubber; to avoid excessive contact.

**Eye Protection:** Safety glasses as good industrial practice.

**Other Protective Clothing or Equipment:** If excessive contact is likely to occur, wear clothing impervious to oil.

**Work/Hygienic Practices:** Always wash hands after use and before eating, drinking, or using the restroom.

## SECTION 9  OTHER INFORMATION

**TSCA:** All components of this product are listed on the TSCA Inventory.

**CERCLA:** Not subject to any special reporting requirements.

**SARA:** Does not contain any section 313 reportable ingredients and is not regulated under SARA Title III.

**D.O.T. Shipping Name:** Not Regulated

**IATA:** Not defined as a dangerous good by IATA.

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