Material Safety Data Sheet

Section 1 — Chemical Product And Company Identification

Manufacturer: LHB Industries
8833 Fleischer Place
Berkeley, MO 63134

Emergency Telephone Number: (800) 633-8253
Information Telephone Number: (314) 423-4333

Review Date: March 8, 2012

Product ID: General Purpose Detergent (Liquid Nonionic)

Specification: MIL-D-16791G, Type I
LHB Part Number: 1064006, 1064007, 1064008
National Stock Number: 7930-00-282-9699, 7930-00-985-6911, 7930-00-282-9700
CAGE Code: 1A864
Contract Number: GS-07F-R0002

Section 2 — Composition / Information On Ingredients

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Wt% (Max)</th>
<th>ACGIH TLV &lt;STEL&gt;</th>
<th>OSHA PEL &lt;STEL&gt;</th>
<th>Vapor Pressure (mm Hg at 20°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9016-45-9</td>
<td>Nonylphenoxypolyethoxy ethanol</td>
<td>100</td>
<td>NE</td>
<td>NE</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

Section 3 — Hazards Identification

ROUTES OF EXPOSURE: Exposure may be by INGESTION, INHALATION and/or SKIN or EYE contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

EFFECTS OF OVEREXPOSURE:

Eyes – May cause irritation, experienced as mild discomfort and seen as slight excess redness of the eye. Skin – Brief contact may cause slight irritation. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort, seen as local redness or swelling. Inhalation – Vapors or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying or heating the material or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headaches, nausea, and drowsiness. Ingestion – May cause abdominal discomfort, nausea, and diarrhea.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: There is no evidence that this product aggravates an existing medical condition.

Section 4 — First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.

Skin: Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

Ingestion: If patient is conscious and can swallow, give two glasses of water. Induce vomiting as directed by medical personnel. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

Inhalation: If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

Section 5 — Fire Fighting Measures

FLASH POINT: 237.8°C
PMCC: LEL Not determined
UEL: Not determined

EXTINGUISHING MEDIA: Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed container. Water or foam may cause frothing.

SPECIAL PROTECTIVE EQUIPMENT: Water may be used to keep fire-exposed containers cool. Fire fighters should wear full protective clothing, including self-contained breathing equipment.

NFPA RATING: HEALTH 1, FLAMMABILITY 1, REACTIVITY 0
HMIS CLASSIFICATION: HEALTH 1, FLAMMABILITY 1, REACTIVITY 0

Section 6 — Accidental Release Measures

PERSONAL PRECAUTIONARY MEASURES: Read entire label before using and follow all label directions.

ENVIRONMENTAL PRECAUTIONARY PROCEDURE FOR CLEANING/ABSORPTION: Wipe, scrape or soak up contents in an inert material. Pick up spill for recovery or disposal and place in a closed container. Dispose of in accordance with applicable Federal, State & Local regulations.

Section 7 — Handling and Storage

HANDLING: Keep out of reach of children. Do not take internally. Do not consume food, drink or smoke while handling this product.

STORAGE: Keep from freezing. Avoid storage in high temperatures or near open flame. Store in dry cool place.

Section 8 — Exposure Controls/Personal Protection

ENGINEERING CONTROLS: Local Exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

RESPIRATORY PROTECTION: If personal exposure cannot be controlled to below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

GLOVES: Wear chemical resistant gloves to avoid skin contact.

SKIN PROTECTION: Impervious clothes to protect skin. Wash promptly when skin becomes contaminated.

EYES: Safety glasses with side shields or chemical goggles.

OTHER PERSONAL PROTECTION DATA: Use only with adequate ventilation. Avoid contact with skin and eyes. Wash hands after using.

MSDS Part No. 1062116 Page 1 of 2 General Purpose Detergent
Section 9 — Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.06</td>
</tr>
<tr>
<td>Density (8.84 lb/gal)</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>7</td>
</tr>
<tr>
<td>Vapor Pressure (&lt; 1 mmHg @20°C)</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Slower than ether</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>&gt;10%</td>
</tr>
</tbody>
</table>

Section 10 — Stability and Reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Stability</td>
<td>Stable</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>Will not occur</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>Freezing and extreme heat</td>
</tr>
<tr>
<td>Material to Avoid</td>
<td>None</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>Toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes and ketones may be formed on burning. Heating in air may produce irritating aldehydes, acids, and ketones.</td>
</tr>
</tbody>
</table>

Section 11 — Toxicological Information

**TOXICOLOGY DATA (Animal Toxicity Data)**
- Oral: LD50 3.31 g/kg (rat) slightly toxic
- Dermal: LD50 > 2.00 g/kg (rabbit) practically non-toxic
- Inhalation: Believed to be practically non-toxic

**IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES)**
- Eyes: (Draize) 14.40/110 (rabbit) slightly irritating
- Skin: (Draize) 1.04/8.0 (rabbit) slightly irritating

Section 12 — Ecological Information

Aquatic Toxicity: LC50-96hr Aquatic toxicity rating is believed to be > 1.00 – 10.00 ppm (moderately toxic)

Section 13 — Disposal Considerations

**DISPOSAL OF WASTE METHOD:** Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

Section 14 — Transport Information

- **U.S. DOT 49 CFR 172.101 Hazardous Material Table**
  - DOT STATUS: Not regulated
- **IATA: List of Dangerous Goods**
  - PROPER SHIPPING NAME: Not regulated

Section 15 — Regulatory Information

- **U.S. REGULATORY RULES**
  - SARA SECTION 302: Residual ethylene oxide, 75-21-8, 0.001%
  - SARA 313 CHEMICALS: Glycol ethers (fraction of product meeting EPA definition), 1.00-2.99%
- **CALIFORNIA PROPOSITION 65**
  - TSCA CERTIFICATION: All chemicals in this product are listed, or are exempt from listing on the TSCA Inventory.

**VOC CONTENT**
- <1% by wt. (ASTM D 2369)
- <0.09 lbs/gal

Section 16 — Other Information

- **REVISION NUMBER:** 04
- **REVISION DATE:** March 8, 2012

**ADDITIONAL INFORMATION:** This MSDS has been prepared in accordance with FED-STD-313D and meets the requirements of 29 CFR 1910.1200.

**IMPORTANT NOTE:** This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or any process. Final determination of suitability of any material is the sole responsibility of the user.

Prepared by: Mark Epstein, Technical Services Manager

*** END OF MSDS***