Material Safety Data Sheet

Nyogel 753G  XEROX MSDS#: I-5018  XEROX PART#: 70E430  MSDS No.: 753G

Date of Preparation: 2/24/99  Revision Date: 1/29/01

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Nyogel 753G
General Use: Electrically Conductive Lubricating Grease
Manufacturer: Nye Lubricants, Inc.
12 Howland Road
Fairhaven, MA  02719  U.S.A.
Telephone: (508) 996-6721 (8:00AM - 5:00PM ET weekdays)
Nights and weekends (Medical Emergencies ONLY): CHEMTREC (800) 424-9300

Section 2 - Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS Number</th>
<th>% wt or % vol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>13.0</td>
</tr>
<tr>
<td>Titanium IV – 2-propanolato, tris(dioctyl)phosphato-O</td>
<td>68585-79-5</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Product formulation is Proprietary
No other ingredients are known to be hazardous under normal usage.

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>OSHA PEL TWA</th>
<th>STEL</th>
<th>ACGIH TLV TWA</th>
<th>STEL</th>
<th>NIOSH REL TWA</th>
<th>STEL</th>
<th>NIOSH IDLH Total Dust</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Black</td>
<td>3.5 mg/m³</td>
<td>NE</td>
<td>3.5 mg/m³</td>
<td>NE</td>
<td>3.5 mg/m³</td>
<td>NE</td>
<td>1750 mg/m³</td>
</tr>
<tr>
<td>Total Dust</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Titanium IV – 2-propanolato,</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td></td>
</tr>
<tr>
<td>tris(dioctyl)phosphato-O</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oil Mist</td>
<td>5 mg/m³</td>
<td>NE</td>
<td>5 mg/m³</td>
<td>NE</td>
<td>10 mg/m³</td>
<td></td>
<td>2500 mg/m³</td>
</tr>
</tbody>
</table>

NE= None Established

Section 3 - Hazards Identification

★ ★ ★ ★ ★ Emergency Overview ★ ★ ★ ★ ★

Summary of risks: May irritate eyes. Prolonged or repeated skin contact may cause irritation. Inhalation of oil mist or vapors from material at high temperatures may irritate respiratory passages.

Potential Health Effects

Eye Contact: May cause irritation.
Skin Contact: Repeated or prolonged skin contact may cause irritation.
Inhalation: Oil mist and vapors at high temperatures may irritate respiratory passages.
Ingestion: May cause gastrointestinal irritation.
Primary Route(s) of Entry: Inhalation at high temperatures, eye contact, skin contact.
Target Organs: Respiratory passages at high temperatures, eyes, skin.
Medical Conditions Aggravated by Long-Term Exposure: None known.
Carcinogenicity: NTP and OSHA do not list Nyogel 753G or its ingredients as carcinogens. The International Agency for Research on Cancer (IARC) has classified carbon black as a Group 2B carcinogen (possibly carcinogenic to humans) based on “sufficient evidence” in animals and “inadequate evidence” in humans. Chronic inflammation, lung fibrosis and lung tumors have been observed in rats in studies in which rats inhaled carbon black for a lifetime at concentrations that overwhelemed the lung’s particle clearance mechanisms and caused the carbon black to accumulate in the lung. These studies were done on the inhalation of respirable carbon black, which is highly unlikely once carbon black is bound in the lubricant. Due to this fact, Nye Lubricants, Inc. feels there is no significant health risk in using this product.

Section 4 - First Aid Measures

Eye Contact: Flush thoroughly with water for at least 15 minutes. Get immediate medical attention.
Skin Contact: Remove contaminated clothing. Wash exposed area with soap and water. Get medical attention if symptoms persists.

HMIS
H 1
F 1
R 0
PPE†

†Sec. 8
**Section 5 - Fire-Fighting Measures**

- **Flash Point:** over 400°F (204°C)
- **Flash Point Method:** CC, ASTM D93
- **Lower Flammable Limit (LFL):** N/A
- **Upper Flammable Limit (UFL):** N/A
- **Extinguishing Media:** CO₂, Foam, Dry Chemical, Water Spray
- **Unusual Fire or Explosion Hazards:** None
- **Hazardous Combustion Products:** Carbon Monoxide and small amount of other toxic fumes.
- **Fire-Fighting Instructions:** Wear a NIOSH approved positive pressure self-contained breathing apparatus with full protective clothing. Do not release runoff from fire control methods to sewers or waterways.

**Section 6 - Accidental Release Measures**

- **Spill Response:** Observe precautions from other sections. Contain any spill with dikes or absorbents to prevent migration and entry into drains, sewers or bodies of water. Wipe or scrape up grease and place it in a proper container for disposal. Wash walking surfaces thoroughly to reduce slipping hazard. Follow applicable OSHA (29 CFR 1910.120), state and local regulations.

**Section 7 - Handling and Storage**

- **Handling Precautions:** Exercise ordinary care in handling industrial lubricants. Avoid contamination of cigarettes or other tobacco products. Wash hands thoroughly before eating or smoking. Remove contaminated clothing and clean before reuse. Users should be alert to the possibility that very small percentages of the population may display unexpected allergic reactions to otherwise innocuous industrial lubricants and raw materials.
- **Storage Requirements:** Do not store in open or unlabeled containers. Store away from incompatibles.

**Section 8 - Exposure Controls / Personal Protection**

- **Eye Protection:** Avoid eye contact. Wear safety glasses or chemical goggles in accordance with OSHA 29 CFR 1910.133.
- **Skin Protection:** Avoid skin contact. Wear chemical protective gloves. Depending upon conditions of use, additional protection may be necessary such as a face shield, apron, etc.
- **Ventilation:** Local ventilation is generally not necessary under normal conditions of use with adequate general ventilation. Ventilation and other forms of engineering controls are the preferred means for controlling chemical exposures.
- **Respiratory Protection:** Avoid breathing oil mist. Respiratory protection is generally not necessary under normal conditions of use with adequate general ventilation.
- **Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
- **Other Precautionary Information:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

**Section 9 - Physical and Chemical Properties**

- **Appearance and Odor:** Smooth, black grease with mild odor.
- **Vapor Pressure:** Negligible
- **Vapor Density:** Not Determined
- **Formula Weight:** Not Calculated
- **Specific Gravity (H₂O=1, at 4 °C):** 1.06 at 25°C
- **pH:** Not Determined
- **Water Solubility:** Insoluble
- **Boiling Point:** Not volatile
- **Dropping Point:** Non-melting
- **% Volatile:** None
- **Evaporation Rate:** Not Determined

**Section 10 - Stability and Reactivity**

- **Stability:** Nyogel 753G is stable at room temperature in closed containers under normal storage and handling conditions.
- **Polymerization:** This product will not undergo hazardous polymerization.
- **Chemical Incompatibilities:** Strong oxidizing materials
- **Conditions to Avoid:** Pyrolysis
- **Hazardous Decomposition Products:** Thermal oxidative decomposition of Nyogel 753G can produce carbon monoxide as well as small amounts of other toxic fumes.
Section 11 - Toxicological Information

Toxicity Data: None available.

Section 12 - Ecological Information

Environmental Fate and Effects: No data has been established for this product.

Section 13 - Disposal Considerations

Disposal: Contact a licensed waste-disposal contractor for detailed recommendations.

Disposal Regulatory Requirements: Many states classify waste lubricants as “hazardous”, which means disposal only by a licensed firm. Follow applicable Federal, state, and local regulations.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101): Not Regulated

Section 15 - Regulatory Information

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

EPA Regulations:
SARA 311/312 Hazard Class (40 CFR 370)
Immediate (Acute) Health Hazard No Sudden Release of Pressure Hazard No Reactive Hazard No
Delayed (Chronic) Health Hazard No Fire Hazard No

SARA 313 Toxic Chemicals (40 CFR 372) CAS Number %
No ingredients listed

SARA Extremely Hazardous Substances (40 CFR 355) CAS Number % Threshold Planning Quantity (TPQ)
No ingredients listed

CERCLA Hazardous Substances (40 CFR 302) CAS Number % Reportable Quantity (RQ)
No ingredients listed

Section 16 - Other Information

Prepared By: WMM
Disclaimer: While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Nye Lubricants, Inc. makes no warranty with respect thereto and disclaims all liability with respect thereon.