

# TIMKEN

Material Safety Data Sheet

WORLDWIDE LEADER IN BEARINGS AND STEEL

## PETROLEUM LUBRICATING GREASE (Timken Part Number: GR 422, 309, 423)

### Section 1

#### **SUPPLIER:**

The Timken Company  
1835 Dueber Avenue, S.W.  
Canton, OH 44706-2798

#### **FORMULA**

Lithium Soap, Mineral Oil and Additives

#### **USDA AUTHORIZATION:**

H-2 (1242)

#### **Emergency Spill Information**

Spill Center 1-800-456-9083

### Section 2 - Hazardous Ingredients/Identity Information

<u>Hazardous Components</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other Limits Recommended</u>	<u>% (optional)</u>
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Non-hazardous

**Hazardous Material Identification System (HMIS):** Health - 1, Flammability - 1, Reactivity - 0

**Not a Controlled Product under (WHMIS) - Canada**

**Special Protection: See Section 9**

### Section 3 - Health Hazard Data

**Threshold Limit Value** 5 mg/m<sup>3</sup> for oil mist in air. OSHA Regulation 29 CFR 1910.1000 - 0.5 mg/m<sup>3</sup> for Antimony Compound (as Sb)

**Effects of Overexposure** Prolonged or repeated skin contact may cause skin irritation. Product contacting the eyes may cause eye irritation. Human health risks vary from person to person. As a precaution, exposure to liquids, vapors, mists and fumes should be minimized. This product has a low order of acute oral toxicity, but minute amounts aspirated into the lungs during ingestion may cause mild to severe pulmonary injury.

**Carcinogenicity:** NTP? No

IARC Monographs? No

OSHA Regulated? No

### Section 4 - Emergency and First Aid Procedures

**EYE CONTACT:** Flush with clear water for 15 minutes or until irritation subsides. If irritation persists, consult a physician.

**SKIN CONTACT:** Remove any contaminated clothing and wash with soap and warm water. If injected by high pressure under skin, regardless of the appearance or its size, contact a physician IMMEDIATELY. Delay may cause loss of affected part of the body.

**INHALATION:** Vapor pressure is very low and inhalation at room temperature is not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician.

**INGESTION:** If ingested, call a physician immediately. Do not induce vomiting.

### Section 5 - Fire and Explosion Hazard Data

**Flash Point (Method Used)** COC - 475°F **Flammable Limits** LEL 0.9% UEL 7.0%

**Extinguishing Media** Foam, Dry Chemical, Carbon Dioxide or Water Spray (Fog)

**Special Fire Fighting Procedures** Cool exposed containers with water. Use air-supplied breathing equipment for enclosed or confined spaces.

**Unusual Fire and Explosion Hazards** Do not store or mix with strong oxidants. Empty containers retain residue. Do not cut, drill, grind, or weld, as they may explode.

**Section 6 - Physical/Chemical Characteristics**

<b>Boiling Point</b>	>550 °F	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	0.90 - 0.94
<b>Vapor Pressure (mm Hg.)</b>	<0.01	<b>Melting Point</b>	Semi-solid
<b>Vapor Density (AIR = 1)</b>	>5	<b>Evaporation Rate (Butyl Acetate = 1)</b>	<0.01
<b>Solubility in Water</b>	Negligible		
<b>Appearance and Odor</b>	Off-white grease with mineral oil odor.		

**Section 7 - Reactivity Data**

<b>Stability</b>	Unstable Stable X	<b>Conditions to Avoid</b>	N/A
<b>Incompatibility (Materials to Avoid)</b>	Avoid contact with strong oxidants like liquid chlorine, concentrated oxygen.		
<b>Hazardous Decomposition or Byproducts</b>	May form SO <sub>2</sub> . If incomplete combustion, Carbon Monoxide.		
<b>Hazardous Polymerization</b>	May Occur Will Not Occur X	<b>Conditions to Avoid</b>	N/A

**Section 8 - Spill or Leak Procedures**

**Steps to be taken in case material is released or spilled**

Scrape up grease, wash remainder with suitable petroleum solvent or add absorbent. Keep petroleum products out of sewers and water courses. Advise authorities if product has entered or may enter sewers and water courses.

**Waste disposal method**

Assure conformity with applicable disposal regulations. Dispose of absorbed material at an approved waste disposal facility or site.

**SARA/TITLE III, Section 313 Status** - Zinc Compounds - < 6% Antimony Compounds - <3%

**Section 9 - Special Protection Information**

<b>Respiratory Protection (Specify type)</b>	Normally not needed		
<b>Ventilation</b>	<b>Local Exhaust</b>	Used to capture fumes and vapors	<b>Special</b> N/A
	<b>Mechanical (General)</b>		<b>Other</b> N/A
<b>Protective Gloves</b>	Use oil-resistant gloves, if needed.	<b>Eye Protection</b>	If chance of eye contact, wear goggles.
<b>Other Protective Equipment</b>	Use oil-resistant apron, if needed.		

**Section 10 - Special Precautions**

**Precautions to be taken in handling and storing**

Keep containers closed when not in use. Do not handle or store near heat, sparks, flame, or strong oxidants.

**Other Precautions**

Remove oil-soaked clothing and laundry before reuse. Cleanse skin thoroughly after contact.

Last Revision: 03/24/03

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