



Royal Purple, Ltd.

Material Safety Data Sheet

I.	Product Name: Thermax™ 680 Chemical Family: Synthetic based lubricating grease Use: Equipment lubrication Manufacturer: Royal Purple, Ltd. Address: 1 Royal Purple Lane, Porter, Texas 77365 USA Phone: 281-354-8600 Emergency Phone: 281-354-8600 Fax: 281-354-7600		Date Issued/Revised: June 14, 2002
II.	Components: • Base Oil (synthetic) — Synthetic additives with iso-paraffinic diluents and aluminum complex thickener. • The precise composition of this oil is proprietary. A more complete disclosure will be provided to a physician or nurse in the event of a medical emergency. • All components of this product are listed on the U.S. TSCA inventory. • This product contains no hazardous substances within the definition of OSHA Regulation 29 CFR 1910.1200. • Royal Purple certifies that this product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form.		
III.	Main Hazards / Health Effects: Eyes: May cause irritation. Inhalation: Viscous nature may block breathing passages if inhaled. Ingestion: May cause diarrhea. Skin: May irritate the skin after prolonged periods of contact.		
IV.	First Aid: Eyes: Flush with water until all residual material is gone. If irritation persists, seek medical help. Inhalation: Clear air passage. If respiratory difficulty continues, seek medical help. Ingestion: Consult physician. Skin: Wash thoroughly with hand cleanser, followed by soap and water. Contaminated clothing should be dry cleaned before reuse.		
V.	Extinguishing Media: Suitable: Foam, dry powder, Halon®, carbon dioxide, sand, earth and water mist. Unsuitable: Water jet. Protective Equipment for Fire Fighting: Self-contained breathing apparatus.		
VI.	Accidental Release Measures: Personal Precautions: Wear gloves and protective overalls. Environmental Precautions: Avoid disposal into drains. Spillage: Scrape up bulk, wipe up remainder with cloth and pick up remaining residue with diatomaceous earth.		
VII.	Handling and Storage: Handling: No special handling precautions necessary. Storage: Do not store at elevated temperatures.		
VIII.	Exposure Control / Personal Protection: Respiratory Protection: None needed. Hand Protection: Protective gloves for hypersensitive persons. Eye Protection: Glasses, if applied to parts in motion. Body Protection: Overalls.		
IX.	Physical and Chemical Properties: Physical State: Semi-solid (paste) Color: purple Odor: very mild pH: Neutral Boiling Range / Point °F (°C): <700 (<371) Pour Point °F (°C): -30 (-34) Flash Point (COC) °F (°C): >450 (>232) Autoignition Temperature °F (°C): >500 (>260) Explosive Properties LEL: 0.9 percent UEL: 7 percent	Evaporation Rate (Butyl Acetate): <0.01 Partition Coefficient (Loq Pow): N/A Vapor Pressure (kPa): <0.1 Percent Volatiles: None Density (g/cm³): 0.9 Flammability: Not flammable at ambient temp. OAR Value: N/A (no volatiles) Oxidizing Properties: None Water Solubility: Insoluble Vapor Density: Greater than air	

- X. Stability and Reactivity:**
Stability: Chemically stable under normal conditions. No photoreactive agents.
Conditions to Avoid: Powerful sources of ignition and extreme temperatures.
Materials to Avoid: Strong inorganic and organic acids, oxidizing agents.
Hazardous Decomposition Products: Burning generates smoke, airborne soot, hydrocarbons and oxides of carbon.
Residue mainly comprised of soot and mineral oxides.
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- XI. Toxicological Information:**
Acute Toxicity: Not known
Irritancy-Skin: Very mild
Skin Sensitization: Not known
Subacute / Sub-chronic Toxicity: Not known
Genotoxicity: None known
Chronic Toxicity: None known
- California Prop 65:** None
Carcinogen: NTP: No
IARC: No
OSHA: No
EC Classification (67 / 548 / EEC): No
LC-50: >4000mg/kg - extrapolated from component data
LD-50: N/A
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- XII. Ecological Information:**
Possible Effects: None
Behavior: Relatively well behaved. Bioaccumulation potential nil.
Environmental Fate: Highly unlikely to cause contamination. Nontoxic to marine or land organisms.
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- XIII. Waste and Container Disposal:**
Waste Disposal: Contact a waste disposal company or local authority for advice.
Container Disposal: Pails without liner see "Waste Disposal" above. Pails with a plastic liner can only be disposed via standard waste disposal services, recycled or reused.
Liner: See "Waste Disposal" above.
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- XIV. Transport Information:**
DOT: Nonhazardous
UN No.: N/A
DOT: Nonhazardous
- Air Transport (ICAO, IATA):** N/A
Sea Transport (IMO, IMDG): N/A
Road and Rail Transport (ADR / RID): N/A
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- XV. Regulatory Information:**
Labeling Information: None needed
EC Annex 1 Class.: N/A
R Phrases: R22 harmful if swallowed (could block passages)
SARA 311 / 312: None
S Phrases: None applicable, as known.
Ozone Depleting Chemicals: N/A
- CERCLA:** Nonhazardous
TSCA: All components are listed
WHMIS (Canada): Not regulated
Canadian DSL: All components are listed
40 CFR Part 372 (SARA Section 313): N/A
RCRA Hazard Class: Nonhazardous
TSCA 12B Components: None
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- XVI. Other Information:**

Signature: _____

Prepared By: A. J. Gustavsen, Ph.D.

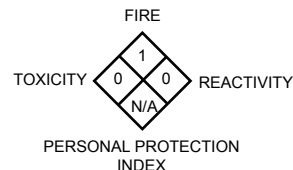
Date Issued/Revised: June 14, 2002

As of issue date, the information contained herein is accurate and reliable to the best of Royal Purple's knowledge. Royal Purple does not warrant or guarantee its accuracy or reliability and shall not be liable for any loss or damage arising out of the use thereof. It is the user's responsibility to satisfy itself that the information offered for its consideration is suitable for its particular use.

LEGEND

- I. Identification of the Substance / Preparation and Company
- II. Composition Information on Ingredients
- III. Hazards Identification
- IV. First Aid Measures
- V. Fire Fighting Measures
- VI. Accidental Release Measures
- VII. Handling and Storage
- VIII. Exposure Control / Personal Protection
- IX. Physical and Chemical Properties
- X. Stability and Reactivity
- XI. Toxicological Information
- XII. Ecological Information
- XIII. Waste Disposal
- XIV. Transport Information
- XV. Regulatory Information
- XVI. Other Information

NFPA SYMBOL



HMIS SYMBOL

HEALTH	0
FLAMMABILITY	1
REACTIVITY	0
PPI	N/A