



# Royal Purple, Ltd.

## Material Safety Data Sheet

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|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| I.    | <p><b>Product Name: Ultra Performance® FDA Grease</b><br/><b>Chemical Family:</b> Synthetic and white mineral oil<br/><b>Use:</b> Food machinery grease for use in food contact applications<br/><b>Manufacturer:</b> Royal Purple, Ltd.<br/><b>Address:</b> 1 Royal Purple Lane, Porter, Texas 77365 USA<br/><b>Phone:</b> 281-354-8600 <b>Emergency Phone:</b> 281-354-8600 <b>Fax:</b> 281-354-7600</p>                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                       | Date Issued/Revised: June 14, 2002 |
| II.   | <p><b>Components:</b></p> <ul style="list-style-type: none"><li>• Base Oil (synthetic) — Synthetic additives with iso-paraffinic diluents and aluminum complex thickener.</li><li>• 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.</li><li>• All components of this product are listed on the U.S. TSCA inventory.</li><li>• This product contains no hazardous substances within the definition of OSHA Regulation 29 CFR 1910.1200.</li><li>• 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.</li></ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                    |
| III.  | <p><b>Main Hazards / Health Effects:</b><br/><b>Eyes:</b> May cause irritation.<br/><b>Inhalation:</b> Viscous nature may block breathing passages if inhaled.<br/><b>Ingestion:</b> May cause diarrhea.<br/><b>Skin:</b> May irritate the skin after prolonged periods of contact.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                    |
| IV.   | <p><b>First Aid:</b><br/><b>Eyes:</b> Flush with water until all residual material is gone. If irritation persists, seek medical help.<br/><b>Inhalation:</b> Clear air passage. If respiratory difficulty continues, seek medical help.<br/><b>Ingestion:</b> Consult physician.<br/><b>Skin:</b> Wash thoroughly with hand cleanser, followed by soap and water. Contaminated clothing should be dry cleaned before reuse.</p>                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                    |
| V.    | <p><b>Extinguishing Media:</b><br/><b>Suitable:</b> Foam, dry powder, Halon®, carbon dioxide, sand, earth and water mist.<br/><b>Unsuitable:</b> Water jet.<br/><b>Protective Equipment for Fire Fighting:</b> Self-contained breathing apparatus.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                    |
| VI.   | <p><b>Accidental Release Measures:</b><br/><b>Personal Precautions:</b> Wear gloves and protective overalls.<br/><b>Environmental Precautions:</b> Avoid disposal into drains.<br/><b>Spillage:</b> Scrape up bulk, wipe up remainder with cloth and pick up remaining residue with diatomaceous earth.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                    |
| VII.  | <p><b>Handling and Storage:</b><br/><b>Handling:</b> No special handling precautions necessary.<br/><b>Storage:</b> Do not store at elevated temperatures.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                    |
| VIII. | <p><b>Exposure Control / Personal Protection:</b><br/><b>Respiratory Protection:</b> None needed.<br/><b>Hand Protection:</b> Protective gloves for hypersensitive persons.<br/><b>Eye Protection:</b> Glasses, if applied to parts in motion.<br/><b>Body Protection:</b> Overalls.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                    |
| IX.   | <p><b>Physical and Chemical Properties:</b><br/><b>Physical State:</b> Semi-solid (paste)<br/><b>Color:</b> Ivory to White<br/><b>Odor:</b> Mild<br/><b>pH:</b> Neutral<br/><b>Boiling Range / Point °F (°C):</b> &gt;600 (&gt;316)<br/><b>Pour Point °F (°C):</b> 500 (260)<br/><b>Flash Point (COC) °F (°C):</b> &gt;430 (&gt;221)<br/><b>Autoignition Temperature °F (°C):</b> &gt;500 (&gt;260)<br/><b>Explosive Properties LEL:</b> 0.9 percent <b>UEL:</b> 7 percent</p>                                                                                                                                                                                                                                                                       | <p><b>Evaporation Rate (Butyl Acetate):</b> &lt;0.01<br/><b>Partition Coefficient (Loq Pow):</b> N/A<br/><b>Vapor Pressure (kPa):</b> &lt;0.01<br/><b>Percent Volatiles:</b> None<br/><b>Density (g/cm³):</b> 0.88<br/><b>Flammability:</b> Not flammable at ambient temp.<br/><b>OAR Value:</b> N/A (no volatiles)<br/><b>Oxidizing Properties:</b> None<br/><b>Water Soluability:</b> Insoluble<br/><b>Vapor Density:</b> &gt;5</p> |                                    |

- 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.

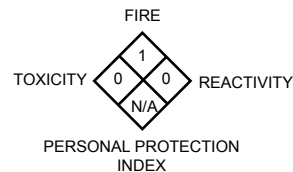
Date Issued/Revised: June 14, 2002

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 |