

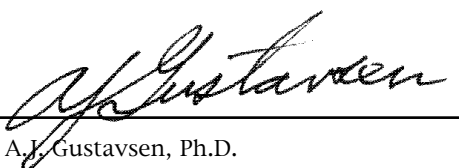


Royal Purple, Ltd.

Material Safety Data Sheet

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- I. Product Name: Tuff Coat M**
Chemical Family: Synthetic based lubricant
Use: Lubricant and sealant
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
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- II. Components:**
- Base Oil (synthetic) — Synthetic additives with iso-paraffinic diluents and silicon dioxide 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.
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- 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.
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- 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.
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- 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.
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- 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.
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- VII. Handling and Storage:**
Handling: No special handling precautions necessary.
Storage: Do not store at elevated temperatures.
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- 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.
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- IX. Physical and Chemical Properties:**
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|---|--|
| Physical State: Semi-solid fibrous | Evaporation Rate (Butyl Acetate): <0.01 |
| Color: Medium blue | Partition Coefficient (Loq Pow): N/A |
| Odor: Mild | Vapor Pressure (kPa): <0.01 |
| pH: Neutral | Percent Volatiles: None |
| Boiling Range / Point °F (°C): >600 (>316) | Density (g/cm ³): 0.88 |
| Pour Point °F (°C): None | Flammability: Not flammable at ambient temp. |
| Flash Point (COC) °F (°C): >400 (>204) | OAR Value: N/A (no volatiles) |
| Autoignition Temperature °F (°C): >500 (>260) | Oxidizing Properties: None |
| Explosive Properties LEL: UN UEL: UN | Water Solubility: Insoluble |
| | Vapor Density: >5 |
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- 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:

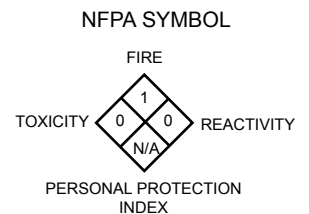
Signature: 

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

Date Issued: August 16, 2001

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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



HMIS SYMBOL

HEALTH	0
FLAMMABILITY	1
REACTIVITY	0
PPI	N/A