Material Safety Data Sheet

I. Product Name: **Dresser Roots ISO-VG 220**
   Chemical Family: Synthetic based lubricating oil
   Use: Lubricant and corrosion inhibitor
   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: August 10, 2006

II. Components:
   - Base Oil (synthetic) — Synthetic additives with iso-paraffinic diluents.
   - 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: Oil mist may line breathing passages with oil making breathing difficult.
   - 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: Wash out mouth immediately. Do not induce vomiting. 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: Do not allow it to enter drains.
   - Spillage: Contain spill and keep from entering waterways. Absorb on porous material. Large quantities can be pumped.

VII. Handling and Storage:
   - Handling: No special handling precautions necessary.
   - Storage: Do not store at elevated temperatures.

VIII. Exposure Control / Personal Protection:
   - Respiratory Protection: Hydrocarbon absorbing respirator if misting.
   - Hand Protection: Oil-proof gloves for hypersensitive persons.
   - Eye Protection: Glasses, if applied to parts in motion.
   - Body Protection: Overalls.

IX. Physical and Chemical Properties:
   - Physical State: Liquid
   - Color: Light Amber
   - Odor: Lube Oil
   - pH: Neutral
   - Boiling Range / Point °F (°C): >700 (>371)
   - Pour Point °F (°C): -35 (-37)
   - Flash Point (COC) °F (°C): 485 (251)
   - Autoignition Temperature °F (°C): >600 (>315)
   - Evaporation Rate (Butyl Acetate = 1): Negligible
   - Vapor Pressure (kPa): <0.1
   - Percent Volatiles: None
   - Density (g/cm³): 0.87
   - Flammability: Not flammable at ambient temp.
   - OAR Value: UN
   - Oxidizing Properties: None
   - Water Solubility: Insoluble
   - Vapor Density: Greater than air
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, sulfur and nitrogen. 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: N/A
Carcinogen: NTP: No
IARC: No
OSHA: No
EC Classification (67/548/EEC): No
LC-50: >2000mg/l - extrapolated from component data
LD-50: Not applicable

XII. Ecological Information:

Possible Effects: When released into the environment, adsorption to sediment and soil will be the predominant behavior.

Behavior: Relatively well behaved. Bioaccumulation potential nil.

Environmental Fate: Due to its fluid nature and specific gravity, this product will float or spread across water making it a nuisance contaminant. It is not thought to be toxic to marine or land organisms.

XIII. Waste and Container Disposal:

Waste Disposal: Consider recycling. This product, as sold, does not meet the RCRA characteristics of a hazardous waste. Under RCRA, it is the responsibility of the user, at the time of disposal, to determine whether the product meets the RCRA criteria for hazardous waste. Contact a waste disposal company or local authority for advice.

Container Disposal: See waste disposal section listed above.

XIV. Transport Information:

DOT: Nonhazardous
UN No.: N/A
Air Transport (ICAO, IATA): Bulk Nonhazardous
Sea Transport (IMO, IMDG): Bulk Nonhazardous
Road and Rail Transport (ADR / RID): Bulk Nonhazardous

XV. Regulatory Information:

Labeling Information: None needed
EC Annex 1 Class.: N/A
R Phrases: N/A
SARA 311 / 312: None
S Phrases: S-3 keep cool, S-16 keep away from ignition sources
RCRA Hazard Class: N/A
TSCA: All components are listed
EC Annex 1 Class.: N/A
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

XVI. Other Information:

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.