

Roots

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
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II.	Components: <ul style="list-style-type: none">• 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.
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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.
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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: 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.
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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: Do not allow it to enter drains. Spillage: Contain spill and keep from entering waterways. Absorb on porous material. Large quantities can be pumped.
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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: 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.
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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/cm ³): 0.87 Flammability: Not flammable at ambient temp. OAR Value: UN Oxidizing Properties: None Water Solubility: Insoluble Vapor Density: Greater than air
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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.

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
 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

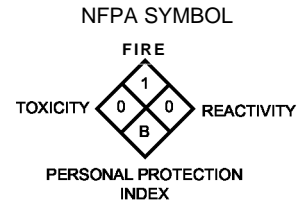
XVI. Other Information:

Signature: 

Prepared By: **A. J. Gustavsen, Ph. D.**
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LEGEND	
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X.	Stability and Reactivity
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XVI.	Other Information



HMS SYMBOL

HEALTH	0
FLAMMABILITY	1
REACTIVITY	0
PPI	B