



Royal Purple, Inc.

Material Safety Data Sheet

I. **Product Name: MaxSolv[®]** Date Issued/Revised: January 31, 2014
Chemical Family: Synthetic based lubricating oil
Use: Lubricant and corrosion inhibitor
Manufacturer: Royal Purple, Inc.
Address: 1 Royal Purple Lane, Porter, Texas 77365 USA
Phone: 281-354-8600 **Emergency Phone:** 281-354-8600 **Fax:** 281-354-7600
24 Hour Emergency Numbers USA: 800-424-9300 **International:** 703-527-3887 (collect calls accepted)

II. **Components:**

- The precise composition of this product 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 hazardous material. Recommended exposure limit of 100 ppm.
- 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, redness and pain. May possibly cause corneal clouding.
Inhalation: No effects of exposure expected. In very high concentrations only: headache, giddiness, mental confusion, nausea.
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 respirator, chemical safety goggles, rubber boots, and heavy rubber gloves..
Environmental Precautions: Do not allow it to enter drains.
Spillage: Contain spill and keep from entering waterways. Absorb on porous material and place in closed container for disposal.

VII. **Handling and Storage:**
Handling: Do not breath vapor. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.
Storage: Keep tightly closed. Keep away from heat and open flames.

VIII. **Exposure Control / Personal Protection:**
Respiratory Protection: Government approved respirator when high concentrations are present.
Hand Protection: Impervious gloves.
Eye Protection: Safety glasses.
Body Protection: Protective work clothing.

IX. **Physical and Chemical Properties:**

Physical State: Liquid	Evaporation Rate (Butyl Acetate = 1): 0.06
Color: Clear	Vapor Pressure (20°C): 0.29 mm
Odor: Mild, Amine-like odor	Percent Volatiles: N/A
pH: 7.7	Density (g/cm ³): 1.03
Boiling Range / Point °F (°C): 400(204)	Flammability: Moderate fire hazard when exposed to heat or flame.
Flash Point (Closed Cup) °F (°C): 186 (86)	Vapor Density: 3.40
Autoignition Temperature °F (°C): 555(291)	Oxidizing Properties: None
	Water Solubility: Miscible
	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, extreme temperatures and open flames.
Materials to Avoid: Strong oxidizers or reducing agents, strong acids.
Hazardous Decomposition Products: CO and NO₂ vapors emitted when heated to decomposition.

XI. Toxicological Information

Acute Toxicity

Oral: LD50: 5130 mg/kg (mouse), 3914 mg/kg (rat)
 Skin: LD50: 8 gm/kg (rbt)
 Inhalation: LCLo: 1 gm/m³ (rat)
 Eye Irritation: Moderate: 100 mg (rbt)

Skin Sensitization: No sensitizing effects known

Other Information (experimental toxicology):

Tumorigenic effects have been observed on tests with laboratory animals.
 Reproductive effects have been observed on tests with laboratory animals.
 Mutagenic effects have been observed on tests with bacteria.

Additional Toxicological Information:

No classification data on carcinogenic properties of this material is available from NTP, IARC, or OSHA.

XII. Ecological Information:

Environmental Fate: When released into soil, this material may biodegrade and/or evaporate to a moderate extent. When released into water, it is not expected to evaporate significantly. This material is not expected to significantly bioaccumulate. When released into the air, it is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, it may be removed from the atmosphere to a moderate extent by wet deposition.

Environmental Toxicity: The LC50/96-hour values for fish are over 100mg/l..

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): Yes
 RCRA Hazard Class: Nonhazardous
 TSCA 12B Components: None
 California: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

XVI. Other Information:

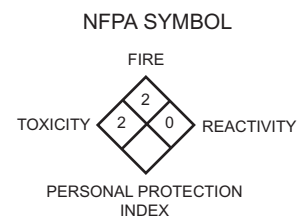
Signature: _____

Prepared By: W. J. Carter, Ph. D.

Date Issued/Revised: January 31, 2014

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	
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HMIS SYMBOL

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0
PPI	G