



Royal Purple, Ltd.

Material Safety Data Sheet

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- I. Product Name: **Max-Cycle®** Date Issued/Revised: October 12, 2005
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
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- 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.
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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: Purple
Odor: Lube Oil
pH: Neutral
Boiling Range / Point °F (°C): >420 (>218)
Pour Point °F (°C): <40 (<4.4)
Flash Point (COC) °F (°C): >400 (>204)
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: Emulsifiable
Vapor Density: Greater than air
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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, sulfur and nitrogen. Residue mainly comprised of soot and mineral oxides.

XI. Toxicological Information:	
Acute Toxicity: Not known	California Prop 65: N/A
Irritancy-Skin: Very mild	Carcinogen: NTP: No
Skin Sensitization: Not known	IARC: No
Subacute / Sub-chronic Toxicity: Not known	OSHA: No
Genotoxicity: None known	EC Classification (67 / 548 / EEC): No
Chronic Toxicity: None known	LC-50: >2000mg/l - extrapolated from component data
	LD-50: Not applicable

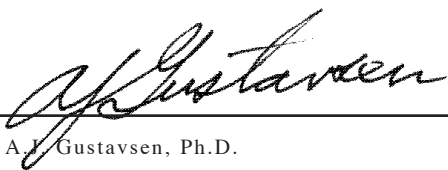
XII. Ecological Information:
Possible Effects: When released into the environment, adsorption to sediment and soil will be the predominant behavior.
Behavior: Relatively well behaved. Bioaccumulation potential nil.
Environmental Fate: Due to its fluid nature and specific gravity, this product will float 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	Air Transport (ICAO, IATA): Bulk Nonhazardous
UN No.: N/A	Sea Transport (IMO, IMDG): Bulk Nonhazardous
DOT: Nonhazardous	Road and Rail Transport (ADR / RID): Bulk Nonhazardous

XV. Regulatory Information:	
Labeling Information: None needed	CERCLA: Nonhazardous
EC Annex 1 Class.: N/A	TSCA: All components are listed
R Phrases: N/A	WHMIS (Canada): Not regulated
SARA 311 / 312: None	Canadian DSL: All components are listed
S Phrases: S-3 keep cool, S-16 keep away from ignition sources	40 CFR Part 372 (SARA Section 313): N/A
Ozone Depleting Chemicals: N/A	RCRA Hazard Class: Nonhazardous
	TSCA 12B Components: None

XVI. Other Information:

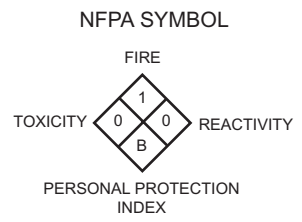
Signature: 

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

Date Issued/Revised: October 12, 2005

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



HMIS SYMBOL

HEALTH	0
FLAMMABILITY	1
REACTIVITY	0
PPI	B