



Royal Purple, Inc.

Material Safety Data Sheet

I.	Product Name: Max-Chain® 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)	Date Issued/Revised: January 31, 2014
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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.• OSHA 29CFR1910.1200 Combustible
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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: Isolate from oxidizers, heat, & open flame. Storage: Do not store above 49°C/120°F. Electrostatic Accumulation Hazard - Use proper grounding
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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: Amber Odor: Mineral Spirits pH: Neutral Boiling Range / Point °F (°C): 370-405 (188-207) Pour Point °F (°C): -71 (-57) Flash Point (PMCC) °F (°C): 205 (96) Autoignition Temperature °F (°C): >530 (>276)	Evaporation Rate (Butyl Acetate = 1): 0.1 Vapor Pressure (kPa): 0.5 mm Hg @ 70 °F Percent Volatiles: 75 Density (g/cm³): 0.82 Oxidizing Properties: None Water Solubility: Insoluble 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
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
LD-50: >2000mg/kg - extrapolated from component data
LC-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 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: Bulk: Petroleum Distillates n.o.s
UN No.: 1268, PG-III
DOT: Combustible Liquid. Not DOT regulated on trucks in containers of < 119 gallons

Air/Sea Transport (ICAO, IATAIMO, IMDG): Petroleum Distillates n.o.s.,3, UN1268, PG-III
Road and Rail Transport (ADR / RID): Bulk Nonhazardous

XV. Regulatory Information:
Labeling Information: Warning Combustible
EC Annex 1 Class.: N/A
R Phrases: R-22 Harmful if swallowed
SARA 311 / 312: Fire
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: Combustible
TSCA 12B Components: None

XVI. Other Information:



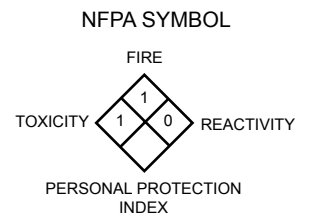
Signature: _____

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	
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	1
FLAMMABILITY	1
REACTIVITY	0
PPI	B



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II.	<p>Components:</p> <ul style="list-style-type: none">• 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.• Carbon Dioxide - Propellant
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III.	<p>Main Hazards / Health Effects: Dangers: Combustible. Contents under Pressure. Eyes: May cause irritation. Inhalation: 100ppm OSHA Pel Vapor Ingestion: May cause diarrhea. Skin: May irritate the skin after prolonged periods of contact.</p>
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IV.	<p>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.</p>
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V.	<p>Extinguishing Media: Suitable: Foam, dry powder, Halon®, carbon dioxide, sand, earth and water mist. Unsuitable: Water jet. However, water spray may be used to cool closed containers to prevent pressure build-up and possible explosion when exposed to extreme heat. Protective Equipment for Fire Fighting: Self-contained breathing apparatus.</p>
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VI.	<p>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.</p>
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VII.	<p>Handling and Storage: Handling: Store away from sources of ignition. Isolate from oxidizers, heat, & open flame. Do not puncture or incinerate container. Storage: Do not store above 49°C/120°F.</p>
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VIII.	<p>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. Must be used with adequate ventilation for solvent vapor.</p>
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IX.	<table><tr><td>Physical and Chemical Properties:</td><td>Evaporation Rate (Butyl Acetate = 1) : 0.1</td></tr><tr><td>Physical State: Aerosol-Pressurized Liquid</td><td>Percent Volatile, wt. % : 50</td></tr><tr><td>Color: Amber</td><td>VOC % (CA) : 50</td></tr><tr><td>Odor: Mineral Spirits</td><td>Density (g/cm³): 0.8</td></tr><tr><td>pH: Neutral</td><td>Flammability: Combustible per DOT 49CFR 173.120</td></tr><tr><td>Boiling Range / Point °F (°C): 315-394 (157-201)</td><td>OAR Value: UN</td></tr><tr><td>Pour Point °F (°C): <0 (<-18)</td><td>Oxidizing Properties: None</td></tr><tr><td>Flash Point (PMCC) °F (°C): 205 (96)</td><td>Water Solubility: Insoluble</td></tr><tr><td>Vapor Pressure : ~50 psig@ 60 °F(10° C)</td><td>Vapor Density: Greater than air</td></tr></table>	Physical and Chemical Properties:	Evaporation Rate (Butyl Acetate = 1) : 0.1	Physical State: Aerosol-Pressurized Liquid	Percent Volatile, wt. % : 50	Color: Amber	VOC % (CA) : 50	Odor: Mineral Spirits	Density (g/cm ³): 0.8	pH: Neutral	Flammability: Combustible per DOT 49CFR 173.120	Boiling Range / Point °F (°C): 315-394 (157-201)	OAR Value: UN	Pour Point °F (°C): <0 (<-18)	Oxidizing Properties: None	Flash Point (PMCC) °F (°C): 205 (96)	Water Solubility: Insoluble	Vapor Pressure : ~50 psig@ 60 °F(10° C)	Vapor Density: Greater than air
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Stability: Chemically stable under normal conditions. No photoreactive agents.
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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	LD-50: 1000mg/kg - extrapolated from component data
	LC-50: Not applicable

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XIII. Waste and Container Disposal:
Waste Disposal: Consider recycling. This product, as sold, does 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: Do not puncture, incinerate or place container in trash compactor.

XIV. Transport Information:	
UN No.:1950	Road and Rail Transport (ADR / RID): <66 Pounds
Air/Sea Transport (ICAO, IATA/IMO, IMDG): Aerosol	DOT: Proper Shipping Name - Consumer Commodity
Flammable, NOS, 2, UN1950, Limited Quantity	ORM-D

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

XVI. Other Information:

W. J. Carter

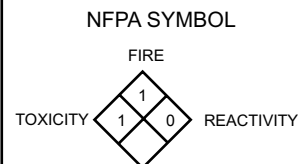
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PERSONAL PROTECTION INDEX

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HEALTH	1
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REACTIVITY	0
PPI	B