



Royal Purple, Ltd.

Material Safety Data Sheet

I. Product Name: **Purple Ice**
Chemical Family: Cooling Water Treatment
Use: Engine coolant
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

II. Components:

- The precise composition of this product are 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: Poisonous
Skin: May cause irritation

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.
Unsuitable: Other combustables.
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:

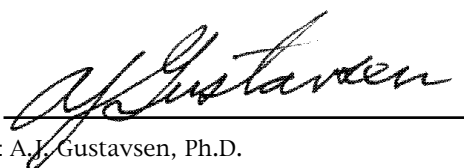
Respiratory Protection: Hydrocarbon absorbing respirator if misting.
Hand Protection: Oil-proof gloves for hypersensitive persons.
Eye Protection: Glasses, if applied to parts in motion.
Body Protection: Overalls.

IX. Physical and Chemical Properties:

Physical State: Liquid
Color: Purple
Odor: none
pH: Neutral
Boiling Range / Point °F (°C): >220 (>104)
Pour Point °F (°C): -20 (-29)
Flash Point (COC) °F (°C): NA
Autoignition Temperature °F (°C): NE

Evaporation Rate (Butyl Acetate): Negligible
Vapor Pressure (kPa): NE
Percent Volatiles: <12%
Density (g/cm³): NE
Flammability: Not flammable at ambient temp.
OAR Value: UN
Oxidizing Properties: None
Water Solubility: yes
Vapor Density: NA

X.	Stability and Reactivity: Stability: Contains an oxidizing agent. Conditions to Avoid: Powerful sources of ignition and extreme temperatures. Materials to Avoid: Strong inorganic and organic acids, oxidizing agents. Hazardous Decomposition Products: Gaseous nitrogen oxides	
XI.	Toxicological Information: Acute Toxicity: Not known Irritancy-Skin: Moderate Skin Sensitization: Moderate 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: not known LD-50: Not applicable
XII.	Ecological Information: Possible Effects: not known Behavior: Relatively well behaved. Bioaccumulation potential nil. Environmental Fate: not known	
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 DOT: Nonhazardous	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:	

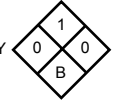
Signature: 

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

Date Issued: September 30, 2002

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
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XVI.	Other Information

NFPA SYMBOL		
	FIRE	
TOXICITY		REACTIVITY
PERSONAL PROTECTION INDEX		

HMIS SYMBOL	
HEALTH	0
FLAMMABILITY	1
REACTIVITY	0
PPI	B