

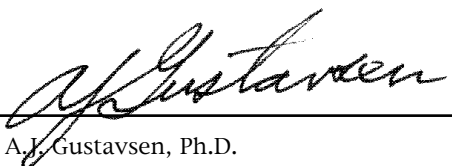


Royal Purple, Ltd.

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	Date Issued/Revised: July 21, 2006
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: Mist may irritate breathing passages 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 washed 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: Respirator if misting. Hand Protection: Protective gloves. Eye Protection: Glasses. Body Protection: Overalls.	
IX.	Physical and Chemical Properties: Physical State: Liquid Color: Purple Odor: none pH: 11 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. OAR Value: UN Water Solubility: yes Vapor Density: NA

X.	Stability and Reactivity: Stability: Contains an oxidizing agent. Conditions to Avoid: 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 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:	

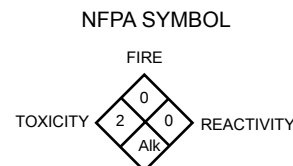
Signature: 

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

Date Issued: July 21, 2006

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	2
FLAMMABILITY	0
REACTIVITY	0
PPI	B