

DUAL HEAT

National Fire Protection Association (NFPA)	Fire Hazard		Hazardous Material Information System (HMIS)	
	Health	1	Reactivity	0
	Specific Hazard		Health	
			Fire Hazard	
Protective Clothing		Emergency Overview		Colorless. Viscous liquid. See Section 9. WARNING: HARMFUL IF SWALLOWED. May be mildly irritating to eyes. May be mildly irritating to skin.

Section 1. Chemical Product and Company Identification

Product Name		DUAL HEAT	Code		90100 & 90200 & 95022
Product Use		Industrial/Institutional: Liquid food warmer fuel.	PMS#		433401
MSDS#		126523001	Validation Date		6/26/2003
U.S. Headquarters		Dual Heat, Ltd. 2827 N.Nichols Fort Worth, Texas 76106	Print Date		6/26/2003
Distributed by:		Drackett Professional A Division of S.C. Johnson Commercial Markets, Inc. 8310 16th Street Sturtevant, Wisconsin 53177-0902 Phone: 800-242-1677	Supersedes		No Previous Validation
			In Case of Emergency		(800) 851-7145

Section 2. Composition and Information on Ingredients

Ingredients	CAS #	% by Weight	Exposure Limits	LC50/LD50
Diethylene Glycol	111-46-6	60-100	Not available.	ORAL (LD50): Acute: 12565 mg/kg [Rat]. DERMAL (LD50): Acute: 11890 mg/kg [Rabbit].

Section 3. Hazards Identification

Routes of Entry	Inhalation. Skin contact. Eye contact. Ingestion.
Potential Acute Health Effects	Eyes May be mildly irritating to eyes. Skin May be mildly irritating to skin. Inhalation May be irritating to nose, throat, and respiratory tract. Ingestion May cause abdominal discomfort, nausea, vomiting and diarrhea, central nervous system depression, renal injury. Ingestion of significant quantities is unlikely because the liquid is absorbed into insulating material.
Medical Conditions	Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be more susceptible to irritating effects.
Aggravated by Overexposure:	See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact	Flush immediately with plenty of water. Get medical attention if irritation occurs.
Skin Contact	Flush immediately with plenty of water. Get medical attention if irritation occurs.
Inhalation	If breathing is difficult: Remove to fresh air. Get medical attention.
Ingestion	Immediately drink plenty of water. If discomfort persists, get medical attention.

Section 5. Fire Fighting Measures

Flammability of the Product	None known.
Flash Points	CLOSED CUP: 118°C (244.4°F).
Products of Combustion	None known.
Fire Fighting Media and Instructions	Extinguish with water spray or carbon dioxide, dry chemical powder or appropriate foam. Normal fire fighting procedure may be used.
Special Remarks on Fire and Explosion Hazards	Material may burn in heat of fire.

Section 6. Accidental Release Measures

Personal Precautions	Put on appropriate personal protective equipment (see Section 8).
Environmental Precautions and Clean-up Methods	In the event of major spillage: Use appropriate containment to avoid environmental contamination. Sweep or scrape up material. Place in suitable clean, dry containers for disposal by approved methods. Use a water rinse for final clean-up.

Section 7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Do not taste or swallow. Store and use away from heat, sparks, open flame, or any other ignition source. Avoid contact with skin and eyes. Do not puncture or incinerate. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.
Storage	Store in a dry, cool and well-ventilated area. Protect from freezing. KEEP OUT OF REACH OF CHILDREN.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	No special ventilation requirements. General room ventilation is adequate.
Personal Protection	
Eyes	No special requirements under normal use conditions.
Hands	No special requirements under normal use conditions.
Respiratory	No special requirements under normal use conditions.
Feet	No special requirements under normal use conditions.
Body	No special protective clothing is required.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid. (Viscous)
Odor	Mild.
Color	Colorless.
pH	Not available.
Specific Gravity	1.1
Boiling/Condensation Point	245°C (473°F)
Melting/Freezing Point	-8°C (17.6°F)
Vapor Pressure	0.02 mm of Hg
Evaporation Rate	<0.001
Solubility in water	Complete.

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	Excessive heat.
Incompatibility with Various Substances	Reactive with oxidizing agents.
Hazardous Decomposition Products	When exposed to fire: Produces normal products of combustion.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Acute toxicity ORAL (LD50) Estimated to be 1000 mg/kg (rat).

Effects of Chronic Exposure None known.

Other Toxic Effects Not available.

Section 12. Ecological Information

Not available.

Section 13. Disposal Considerations

Waste Information No special precautions. Dispose of according to all federal, state and local regulations.

Section 14. Transport Information
DOT Classification

DOT Proper Shipping Name Please refer to the Bill of Lading/receiving documents for up to date shipping information.

TDG Classification

TDG Proper Shipping Name Please refer to the Bill of Lading/receiving documents for up to date shipping information.

Section 15. Regulatory Information
Reporting in this section is based on ingredients disclosed in Section 2
US Regulations

State Pennsylvania RTK: Diethylene Glycol

This product is not subject to the reporting requirements under California's Proposition 65.

Registered Product Information Not applicable.

Canadian Regulations

WHMIS Classification Not controlled under WHMIS (Canada).

WHMIS Icon

Registered Product Information Not applicable.

Chemical Inventory Status All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory

Section 16. Other Information

Other Special Considerations Not available.

Version 1.02

Notice to Reader

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.