

MATERIAL SAFETY DATA SHEET

Radiator Specialty Company

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POISON INFORMATION & EMERGENCY: 303-623-5716

MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements.

US DEPARTMENT OF LABOR

Occupational Safety and Health Administration. (Non-Mandatory Form) Form Approved OMB No. 1218-0072

SECTION I GENERAL INFORMATION

PRODUCT NAME DE-ICER
PART NUMBER DE-1

NOTE: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	WT%	C.A.S. NO.	TLV (ACGIHXOSHA)	
Methanol*	45-55	67-56-1	200 ppm	
Ethylene Glycol * +	3-7	107-21-1	100 ppm	
Carbon Dioxide	3-5	124-38-9	5000 ppm	

*THESE CHEMICALS ARE SUBJECT TO REPORTING REQUIREMENTS OF SARA TITLE III, 40 CFR PART 372.

+ THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

Components not identified are non-hazardous according to 29 CFR 1910.1200

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

Specific Gravity (H₂O=1) 0.792 pH N/A Solubility in Water Infinite Solubility in Solvent N/A Flash Point (Method) - F⁰ 54 (TCC) % Volatiles By Wt. >92 Melting Point - F -144°F Boiling Point - F 148°F Vapor Pressure (mmHg) N/A Vapor Density (Air=1) 1.11 Evaporation Rate (Butyl Acetate=1) 5.9 Appearance and Odor Clear liquid with alcohol odor.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA: Water Fog	(LEL: 6.0 UEL 30 Foam X	6.5) CO ₂ X	Dry Chemical X
SPECIAL FIRE FIGHTING	PROCEDURES. Wear	self-contained, posi	tive pressure breathing apparatus and
protective clothes. Cool of	ontainers exposed to h	neat with water fog.	
UNUSUAL FIRE AND EXPL	OSION HAZARDS A	Aerosol containers are	under pressure and may burst when heated

SECTION V REACTIVITY DATA

Stable X	Unstable	Corrosive	NO	Hazardous Polymerization? Yes	No	X
Incompatibi	lities Strong oxidizing agen	ts/ will attack some	forms o	f plastics and rubber.		
Hazardous Decomposition or Byproducts Carbon monoxide and carbon dioxide may be formed during combustion						

SECTION VI HEALTH HAZARD INFORMATION

EYE CONTACT May be slightly irritating to eyes	SKIN CONTACT Slight irritant. Prolonged exposure may cause dermatitis.
INHALATION Avoid chronic exposure	INGESTION HARMFUL OR FATAL IF SWALLOWED! May cause diarrhea, nausea, and cramps.

SECTION VII EMERGENCY AND FIRST AID PROCEDURES

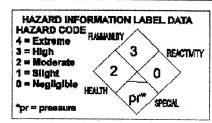
EYE CONTACT Flush eyes with water for 15 minutes while lifting eyelids. Consult a physician immediately.
SKIN CONTACT Wash with soap and water
INHALATION
Move to fresh air. If breathing has stopped give artificial respiration or oxygen as required. Get medical attention.
INGESTION If swallowed contact a physician immediately. Only induce vomiting at the instruction of a physician. Aspiration into lungs can cause chemical pneumonitis, which can be fatal.

SECTION VIII SPECIAL PROTECTION INFORMATION

	CONSUMER	BULK HANDLING (Prolonged Exposure)
RESPIRATORY PROTECTION	N/A	TLV is exceeded, wear organic vapor respirator
VENTILATION	Use with adequate ventilation	General
EYE PROTECTION	N/A	Goggles
PROTECTIVE CLOTHING	N/A	Rubber gloves and apron

SECTION IX PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL OR LEAK PROCEDURE	Remove ignition sources, ventilate area, confine spill, wipe up with absorbent material, transfer to waste drum.
WASTE DISPOSAL METHOD <i>bis</i>	pose of in accordance with all applicable government laws and regulations.
STORAGE AND HANDLING PRE	CAUTION Store and use away from all heat and ignition sources.
OTHER PRECAUTIONS	KEEP AWAY FROM CHILDREN AND ANIMALS! AVOID EYE AND SKIN EXPOSURE! AVOID BREATHING VAPORS!



Supersedes NEW

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Title R. GEER - CHEMIST

While Radlator Specialty Company believes this data is accurate as of the revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance thereon. The data is offered solely for information, investigation, and verification.