

Gunk DEICER

DE-1

# 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 (ACGIH-X-----OSHA-----)
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.

#### Comments

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

### SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

Specific Gravity (H <sub>2</sub> O=1)	0.792	pH	N/A
Solubility in Water	Infinite	Solubility in Solvent	N/A
Flash Point (Method) - F <sup>o</sup>	54 (TCC)	% Volatiles By Wt.	>92
Melting Point - F <sup>o</sup>	-144°F	Boiling Point - F <sup>o</sup>	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: (LEL: 6.0 UEL 36.5)			
Water Fog	Foam X	CO <sub>2</sub> X	Dry Chemical X

SPECIAL FIRE FIGHTING PROCEDURES. Wear self-contained, positive pressure breathing apparatus and protective clothes. Cool containers exposed to heat with water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS Aerosol containers are under pressure and may burst when heated

**SECTION V REACTIVITY DATA**

Stable	X	Unstable	Corrosive	NO	Hazardous Polymerization?	Yes	No	X
<b>Incompatibilities</b>		Strong oxidizing agents/ will attack some forms of plastics and rubber.						
<b>Hazardous Decomposition or Byproducts</b>		Carbon monoxide and carbon dioxide may be formed during combustion..						

**SECTION VI HEALTH HAZARD INFORMATION**

<b>Recommended TLV of Product</b>	100 ppm		
<b>EYE CONTACT</b> May be slightly irritating to eyes	<b>SKIN CONTACT</b>	Slight irritant. Prolonged exposure may cause dermatitis.	
<b>INHALATION</b> Avoid chronic exposure	<b>INGESTION</b>	<b>HARMFUL OR FATAL IF SWALLOWED!</b> May cause diarrhea, nausea, and cramps.	
<b>OTHER</b> Methanol is a poisonous, narcotic chemical and if ingested can cause blindness and death. Reports have associated repeated and prolonged over exposure to solvents with permanent brain and nervous system damage..			

**SECTION VII EMERGENCY AND FIRST AID PROCEDURES**

<b>EYE CONTACT</b> Flush eyes with water for 15 minutes while lifting eyelids. Consult a physician immediately.
<b>SKIN CONTACT</b> Wash with soap and water
<b>INHALATION</b> Move to fresh air. If breathing has stopped give artificial respiration or oxygen as required. Get medical attention.
<b>INGESTION</b> 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)
<b>RESPIRATORY PROTECTION</b>	N/A	TLV is exceeded, wear organic vapor respirator
<b>VENTILATION</b>	Use with adequate ventilation	General
<b>EYE PROTECTION</b>	N/A	Goggles
<b>PROTECTIVE CLOTHING</b>	N/A	Rubber gloves and apron

**SECTION IX PRECAUTIONS FOR SAFE HANDLING AND USE**

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

**HAZARD INFORMATION LABEL DATA**

**HAZARD CODE**

4 = Extreme  
3 = High  
2 = Moderate  
1 = Slight  
0 = Negligible

pr = pressure

Supersedes NEW

OSHA Revised MAY 1999

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.