

# Material Safety Data Sheet

# MSDS

Section 1 – CHEMICAL PRODUCT AND COMPANY INFORMATION	
Product Brand: Bar's Leaks®	Product Part #: 1201
Bar's Products 720 West Rose Street P.O. Box 187 Holly, Michigan 48442	Product Name: Super Radiator Flush
	24-Hour Emergency CHEMTEL INC. U.S. & Canada 1-800-255-3924 International 813-248-0585
	Information: 1-248-634-8278 / www.barsleaks.com
	Date Prepared: 09-02-05

Section 2—COMPOSITION / INFORMATION ON INGREDIENTS					
Hazardous Components (Specific Chemical Identity, Common Name(s))	CAS NUMBER	OSHA PEL	ACGIH TLV	Other Limits	% (optional)
Deionized water	7732-16-5				70-80
Sodium Gluconate	527-07-1				<5
Silicic acid, disodium salt	6834-92-0				<5
Tetrapotassium Pyrophosphate	7320-34-5				<4
Tetrasodium salt of EDTA	64-02-8\				<4
Nonionic surfactant	68412-54-4				<2
Anionic surfactant	36445-71-3				<2
Nonionic surfactant	9036-19-5				<2

*All other components are considered to be non-hazardous as per OSHA 29 CFR 1910.1200.*

Section 3—HAZARDS IDENTIFICATION						
Potential Health Effects:	EYE -	Irritation, redness.				
	SKIN -	May be slightly too moderately irritating to the skin.				
	INHALATION -	None likely under normal use.				
	INGESTION -	Gastrointestinal distress and nausea.				
Acute Health Hazards:	No data available					
Chronic Health Hazards:	No data available					
Medical Conditions Aggravated by Exposure:	No data available					
Target Organ Effects:	No data available.					
Carcinogenicity:	OSHA	No	IARC	No	NTP	No

Section 4—FIRST AID MEASURES	
Eye:	Immediately flush with water for 15-minutes, removing contacts to assure complete flushing or until irritation subsides. If irritation persists, call a physician.
Skin Contact:	Flush with large quantities of water for 15 minutes.
Inhalation:	Immediately remove victim to fresh air. If breathing is difficult call a physician.
Ingestion:	Do not induce vomiting. Contact a physician immediately. If conscious, have victim rinse mouth thoroughly and drink large quantity of water. Never give anything by mouth to an unconscious person.
Note To Physician:	Treat for clinical symptoms.

Section 5—FIRE FIGHTING MEASURES	
Flash Point (Method Used):	N/A
Flammable Limits	LEL (lower explosion limit): N/A UEL (upper explosion limit): N/A
Extinguishing Media:	Use water spray, dry chemical, foam or carbon dioxide. Water or foam may cause frothing. Use water spray to keep fire=exposed containers cool. Water spray may be used to flush spills away from exposures. Minimize breathing vapor, fumes or decomposition products. Uses supplied air breathing

	equipment for enclosed or confined spaces or as otherwise needed.					
<b>Special Fire Fighting Procedures:</b>	Self contained breathing equipment and chemical resistant clothing recommended.					
<b>Unusual Fire and Explosion Hazards:</b>	Extreme heat may cause sealed containers to rupture. Cool fire exposed containers with water spray.					
<b>NFPA National Fire Protection Agency:</b>	Health	1	Flammability	0	Reactivity	1
<b>HMIS Hazardous Material Identification:</b>	Health	1	Flammability	0	Reactivity	1 PPE B

#### Section 6—ACCIDENTAL RELEASE MEASURES

**Spill or Leak Procedures:** Contain spill. Collect and return large amounts to shipping container. Rinse spill area with water. Keep product out of sewers and watercourses.

#### Section 7—HANDLING AND STORAGE

<b>Storage Temperature (MIN/MAX):</b>	N/E	<b>Shelf Life:</b>	N/E
<b>Handling/Storage Precautions:</b>	Keep out of eyes. Do not reuse the container. Do not store sealed container near extreme heat. Do not store or mix with strong acids or oxidizers. Avoid exposing product to freezing temperatures.		

#### Section 8—EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering Controls:</b>	N/A
<b>Respiratory Protection:</b>	Generally not needed.
<b>Skin Protection:</b>	Use chemical resistant gloves to avoid prolonged or repeated skin contact.
<b>Eye Protection:</b>	Use safety glasses.

#### Section 9—PHYSICAL / CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid	<b>Freezing Point:</b>	20°F
<b>Appearance:</b>	Clear Liquid	<b>Melting Point:</b>	N/A
<b>Odor:</b>	None	<b>Boiling Point °F (°C):</b>	>212° F / >100°C
<b>Solubility in Water:</b>	Complete	<b>Evaporation Rate:</b>	<<1
<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	1.06 @ 60°F	<b>Vapor Density (AIR = 1):</b>	Not determined
<b>pH:</b>	12.0 – 13.0	<b>Vapor Pressure (mm Hg):</b>	<<1
<b>Percent Volatiles (VOC):</b>	0%		

#### Section 10—STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable
<b>Incompatibility:</b>	None known
<b>Hazardous Decomposition Products:</b>	Thermal decomposition will cause the formation of oxides of carbon and nitrogen..
<b>Hazardous Polymerization:</b>	Will not occur
<b>Conditions to Avoid:</b>	Not applicable.

#### Section 11—TOXICOLOGICAL INFORMATION

Long-term toxicological studies have not been conducted fro this product.

#### Section 12—ECOLOGICAL INFORMATION

<b>Ecotoxicological Information:</b>	No data available
<b>Environmental Fate:</b>	No data available

#### Section 13—DISPOSAL CONSIDERATIONS

In accordance with local, state and federal laws.

#### Section 14—TRANSPORTATION INFORMATION

<b>U.S. Proper Shipping Name:</b>	N/A
<b>DOT (Domestic Surface) Hazard Class or Division:</b>	N/A
<b>IMO / IMDG (Ocean) Hazard Class Division Number:</b>	N/A
<b>ICAO / IATA (Air) Hazard Class Division Number:</b>	N/A

<b>Section 15—REGULATORY INFORMATION</b>	
<b>SARA Title III Section 302 Extremely Hazardous Substances:</b>	None
<b>SARA Title III Section 311/312 Hazard Categories:</b>	N/A
<b>SARA Title III Section 313 Toxic Chemicals:</b>	None
<b>OSHA Status:</b>	Not regulated
<b>TSCA Status:</b>	Chemical components listed on TSCA inventory
<b>CERCLA Reportable Quantity:</b>	N/A

<b>Section 16—OTHER INFORMATION</b>			
N/A	Not Applicable	N/E	Not Established
N/D	Not Determined		

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