

# Material Safety Data Sheet

# MSDS

Section 1 – CHEMICAL PRODUCT AND COMPANY INFORMATION	
<b>Product Brand:</b> Bar's Leaks®	<b>Product Part #:</b> 1108
Bar's Products 720 West Rose Street P.O. Box 187 Holly, Michigan 48442	<b>Product Name:</b> Metallic Liquid Copper Stop Leak
	<b>24-Hour Emergency CHEMTEL INC.</b> U.S. & Canada 1-800-255-3924 International 813-248-0585
	<b>Information:</b> 1-248-634-8278 / www.barsleaks.com
	<b>Date Prepared:</b> 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)
Copper Dust & Mist	7440-50-8	1 mg/m <sup>3</sup>	1 mf/m <sup>3</sup>		
Sodium Silicate	1344-09-8	2 mg/m <sup>3</sup>	NA		
Copper Flake	7440-50-8	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>		
<i>All other components are considered to be non-hazardous as per OSHA 29 CFR 1910.1200.</i>					

Section 3—HAZARDS IDENTIFICATION	
<b>Potential Health Effects:</b>	<b>EYE -</b> Irritation, redness, stinging. <b>SKIN -</b> Dryness, irritation, redness. <b>INHALATION -</b> Vapors may irritate nose, throat, and respiratory tract. <b>INGESTION -</b> Nausea, vomiting, dizziness, headache, blurred vision.
<b>Acute Health Hazards:</b>	Irritation of the eyes.
<b>Chronic Health Hazards:</b>	None expected on industrial level.
<b>Medical Conditions Aggravated by Exposure:</b>	Disorders or disease of the skin, or respiratory system.
<b>Target Organ Effects:</b>	No data available.
<b>Carcinogenicity:</b>	<b>OSHA</b> No <b>IARC</b> No <b>NTP</b> No

Section 4—FIRST AID MEASURES	
<b>Eye:</b>	Flush with large amounts of water for 15 minutes.
<b>Skin Contact:</b>	Wash with water.
<b>Inhalation:</b>	Remove victim to fresh air and get medical attention.
<b>Ingestion:</b>	Do not induce vomiting. Give several glasses of water. Get medical attention.
<b>Note To Physician:</b>	Treat for clinical symptoms.

Section 5—FIRE FIGHTING MEASURES	
<b>Flash Point (Method Used):</b>	No flash using TAG closed cup/ASTM D-56
<b>Flammable Limits</b>	<b>LEL</b> (lower explosion limit): NA <b>UEL</b> (upper explosion limit): NA
<b>Extinguishing Media:</b>	Not combustible
<b>Special Fire Fighting Procedures:</b>	Always use self-contained breathing apparatus.
<b>Unusual Fire and Explosion Hazards:</b>	None known.
<b>NFPA National Fire Protection Agency:</b>	Health 1    Flammability 0    Reactivity 0
<b>HMIS Hazardous Material Identification:</b>	Health 1    Flammability 0    Reactivity 0    PPE B

Section 6—ACCIDENTAL RELEASE MEASURES	
<b>Spill or Leak Procedures:</b>	Dike or pillow area. Remove all sources of irrigation. Ventilate area if necessary. Absorb free liquid with earth, sand, clay or absorbent pads and place in non-leak containers for disposal. Flush area for trace residue and dispose of as below. Wear respiratory protection for large spill, leak or release. Use personal protective equipment as stated in Section 8. Do not flush to drain/storm sewer.

<b>Section 7—HANDLING AND STORAGE</b>	
<b>Storage Temperature (MIN/MAX):</b>	N/E
<b>Shelf Life:</b>	N/E
<b>Handling/Storage Precautions:</b>	Store in original container in area inaccessible to children and pets. Do not reuse container. Do not store sealed container near extreme heat. Do not store or mix with strong oxidizers. Avoid exposing product to freezing temperatures.

<b>Section 8—EXPOSURE CONTROLS/PERSONAL PROTECTION</b>	
<b>Engineering Controls:</b>	Vinyl
<b>Respiratory Protection:</b>	None required.
<b>Skin Protection:</b>	Rubber gloves and full work clothing to minimize exposure.
<b>Eye Protection:</b>	Safety glasses.

<b>Section 9—PHYSICAL / CHEMICAL PROPERTIES</b>			
<b>Physical State:</b>	Liquid	<b>Freezing Point:</b>	N/D
<b>Appearance:</b>	Copper metal flakes suspended in clear liquid.	<b>Melting Point:</b>	N/A
<b>Odor:</b>	Mild odor	<b>Boiling Point °F (°C):</b>	104°C
<b>Solubility in Water:</b>	100%	<b>Evaporation Rate:</b>	NA
<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	1.276	<b>Vapor Density (AIR = 1):</b>	>1
<b>pH:</b>	10-11	<b>Vapor Pressure (mm Hg):</b>	NA
<b>Percent Volatiles (VOC):</b>	0%		

<b>Section 10—STABILITY AND REACTIVITY</b>	
<b>Chemical Stability:</b>	Stable
<b>Incompatibility:</b>	Strong Acids
<b>Hazardous Decomposition Products:</b>	None
<b>Hazardous Polymerization:</b>	Will not occur
<b>Conditions to Avoid:</b>	Strong Acids

<b>Section 11—TOXICOLOGICAL INFORMATION</b>	
NA	

<b>Section 12—ECOLOGICAL INFORMATION</b>	
<b>Ecotoxicological Information:</b>	No data available
<b>Environmental Fate:</b>	No data available

<b>Section 13—DISPOSAL CONSIDERATIONS</b>	
Dike or pillow area to contain spill. Dispose of in accordance with state and local regulations.	

<b>Section 14—TRANSPORTATION INFORMATION</b>	
<b>U.S. Proper Shipping Name:</b>	N/A
<b>DOT (Domestic Surface) Hazard Class or Division:</b>	Non Hazardous
<b>IMO / IMDG (Ocean) Hazard Class Division Number:</b>	Not regulated
<b>ICAO / IATA (Air) Hazard Class Division Number:</b>	Not regulated

<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>	
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N/A	Not Applicable	N/E	Not Established
N/D	Not Determined		

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