

# MATERIAL SAFETY DATA SHEET

HMIS CODES: 

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

U.S. Department of Labor  
Occupational Safety and Health Administrator  
(Non-Mandatory Form)  
Form Approved OMB No. 1218-0072

Identity (as used on label and list):

**"FREEZE-FIGHTER" ANTI-FREEZE SOLUTION AF**

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 I

Manufacturer's Name:  
J.C. WHITLAM MANUFACTURING COMPANY

Emergency Telephone Number:  
(330) 334 - 2524

Address (Number, Street, City, State, and ZIP Code):  
200 WEST WALNUT STREET

Telephone Number for Information:  
(330) 334 - 2524

P.O. BOX 380

Date Prepared: January 1, 2008

WADSWORTH, OHIO 44282-0380

Signature of Preparer (optional):

## Section II - Hazardous Ingredients/Identity Information

HAZARDOUS COMPONENTS SPECIFIC CHEMICAL IDENTITY: COMMON NAME(S)	OSHA PEL	ACGIH TLV	OTHER LIMITS Recommended	% (optional)
NONE KNOWN.  THIS FORMULA CONTAINS NO COMPONENTS WHICH ARE HAZARDOUS.	N/A	N/A	N/A	

## Section III - Physical/Chemical Characteristics

Boiling Point:	374°F (190°C)	Specific Gravity (H2O =1):	1.04
Vapor Pressure (mm Hg):	.22 mm Hg 68°F	Melting Point:	N/A
Vapor Density (AIR = 1):	2.62	Evaporation Rate (Butyl Acetate = 1):	<.01

Solubility in Water: 100%

Appearance and Odor: PINK LIQUID - SWEET ODOR

## Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used): 211°F 99.4°C (TTC)	Flammable Limits:	LEL: 2.6%	UEL: 12.6%
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Extinguishing Media: ALCOHOL FOAM OR CARBON DIOXIDE OR DRY CHEMICAL.

Special Fire Fighting Procedures: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACE PIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE.

Unusual Fire and Explosion Hazards: NEVER USE WELDING OR A CUTTING TORCH NEAR PRODUCT BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

<b>Section V - Reactivity Data</b>		<b>"FREEZE-FIGHTER" ANTI-FREEZE SOLUTION</b>		<b>AF</b>
Stability:	Unstable:		Conditions to Avoid: N/A	
	Stable:	X		
Incompatibility (Materials to Avoid): AVOID CONTACT WITH STRONG OXIDIZING AGENTS.				
Hazardous Decomposition or Byproducts: PROPIONALDEHYDE, CARBON MONOXIDE IN PRESENCE OF LIMITED OXYGEN IN A FIRE SITUATION.				
Hazardous Polymerization:	May Occur:		Conditions to Avoid: N/A	
	Will Not Occur:	X		
<b>Section VI - Health Hazard Data</b>				
Route(s) of Entry:	Inhalation? YES	Skin? YES	Ingestion? YES	
Health Hazards (Acute and Chronic): EYES: MAY CAUSE IRRITATION. SKIN: CAN CAUSE IRRITATION. BREATHING OF MIST CAN CAUSE IRRITATION OF NASAL AND RESPIRATORY PASSAGES. SWALLOWING: CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING OR DIARRHEA.				
Carcinogenicity:	NTP? NO	IARC Monographs? NO	OSHA Regulated? NO	
Signs and Symptoms of Exposure: EYES: RED WATERING EYES. SKIN: MAY CAUSE IRRITATION. INGESTION: MAY CAUSE NAUSEA.				
Medical Conditions Generally Aggravated by Exposure: THIS MATERIAL OR ITS EMISSIONS MAY AGGRAVATE PRE-EXISTING EYE DISEASE.				
Emergency and First Aid Procedures: SKIN: WASH EXPOSED AREAS THOROUGHLY WITH SOAP AND WATER. EYES: FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. SWALLOWED: DRINK TWO GLASSES OF WATER AND INDUCE VOMITING, GET MEDICAL HELP. INHALATION: MOVE INDIVIDUAL TO FRESH AIR.				
<b>Section VII - Precautions for Safe Handling and Use</b>				
Steps to Be Taken in Case Material is Released or Spilled: ABSORB LIQUID ON VERMICULITE, FLOOR ABSORBENT OR OTHER ABSORBENT MATERIAL AND TRANSFER TO HOOD.				
Waste Disposal Method: ALLOW VOLATILE PORTION TO EVAPORATE IN HOOD. DISPOSE OF REMAINING MATERIAL IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REGULATIONS.				
Precautions to Be Taken in Handling and Storing: EXERCISE REASONABLE CARE AND CAUTION.				
Other Precautions: CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED, SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES. ALL HAZARD PRECAUTIONS GIVEN IN DATA SHEET MUST BE OBSERVED.				
<b>Section VIII - Control Measures</b>				
Respiratory Protection (Specify Type): NO SPECIAL RESPIRATORY PROTECTION IS RECOMMENDED UNDER NORMAL AND ADEQUATE VENTILATION.				
Ventilation:	Local Exhaust: YES		Special: N/A	
	Mechanical (General): PROVIDE SUFFICIENT MECHANICAL VENTILATION.		Other: N/A	
Protective Gloves: WEAR POLYETHYLENE RESISTANT GLOVES.		Eye Protection: WEAR SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS.		
Other Protective Clothing or Equipment: TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.				
Work/Hygienic Practices: WASH HANDS BEFORE EATING. PROMPTLY REMOVE SOILED CLOTHING AND WASH THOROUGHLY.				