

# MATERIAL SAFETY DATA SHEET

HMIS CODES: 

H	F	R	P
0	1	0	A

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 CONCENTRATE**

**FF**

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 26, 2012

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.

N/A

N/A

N/A

THIS FORMULA CONTAINS NO COMPONENTS  
WHICH ARE HAZARDOUS.

## Section III - Physical/Chemical Characteristics

Boiling Point:

374°F (190°C)

Specific Gravity (H<sub>2</sub>O =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: BLUE 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%

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 CONCENTRATE</b>	<b>FF</b>
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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 PRESCENCE OF LIMITED OXYGEN IN A FIRE SITUATION.

Hazardous Polymerization:	May Occur:		Conditions to Avoid: N/A
	Will Not Occur:	X	

**Section VI - Health Hazard Data**

Route(s) of Entry:	Inhalation? YES	Skin? YES	Ingestion? YES
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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
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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. INGESTION: DRINK TWO GLASSES OF WATER AND INDUCE VOMITING. GET MEDICAL HELP. INHALATION: MOVE INDIVIDUAL TO FRESH AIR.

**Section VII - Precautions for Safe Handling and Use**

Steps to Be Taken in Case Material is Released or Spilled: ABSORB LIQUID WITH 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.

**Section VIII - Control Measures**

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.
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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.