



MATERIAL SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET: **Hollow Heart Concentrate**

SECTION I

MSDS NUMBER:	8-SF
MSDS CODE:	SF
SYNONYMS:	N/A
MANUFACTURED FOR:	Osmose Wood Preserving, Inc.
DIVISION:	Utilities Division
EPA REGISTRATION NUMBER:	3008-8
VENDOR:	N/A
EMERGENCY PHONE:	CHEMTREC: 1(800) 424-9300
OTHER CALLS:	(716) 882-5905
ADDRESS:	980 Ellicott Street, Buffalo, NY 14209
MSDS PREPARED BY:	Teri Muchow
DATE PREPARED:	April 23, 1990
DATE LAST REVISED:	January 10, 1996

★ADDITIONAL INFORMATION★

CHEMTREC'S EMERGENCY TELEPHONE NUMBER IS TO BE USED ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS.

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

TRADE NAME: Hollow Heart Concentrate	CAS	OSHA PEL	ACGIH TLV	OTHER	%
INGREDIENT NAME					
Sodium Fluoride	7681-49-4	2.5 mg/M ³ as F	2.5 mg/M ³ as F	RQ = 1000 pounds	10.9
Sodium Dichromate	10588-01-9	0.1 mg/M ³ as Cr*	.05 mg/M ³ as Cr	RQ = 10 pounds	4.8
Tri-sodium Arsenate	7631-89-2	0.5 mg/M ³ as As	0.1 mg/M ³ as As	RQ = 1 pound	5.36

* ceiling concentration limit

SECTION III - CHEMICAL CHARACTERISTICS

BOILING POINT	MELTING POINT	FREEZING POINT	SPECIFIC GRAVITY (H ₂ O = 1)	PERCENT VOLATILE BY VOLUME	THEORETICAL VOC CONTENT (PERCENT OF WEIGHT)
210°F	N/A	Approx. 32°F	1.17	< 5%	N/A
WEIGHT PER GALLON 9.7 lb/gal	pH: 7.06 as is	VAPOR PRESSURE < 1mm	VAPOR DENSITY N/A	DENSITY N/A	EVAPORATION RATE BASIS (N-BUAC) = 1 N/A
SOLUBILITY IN WATER: 90 %			REACTIVITY IN WATER: N/A		
APPEARANCE AND ODOR: Orange liquid - slight alcohol odor.					

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT		METHOD		FLAMMABLE LIMITS IN AIR (%)		AUTOIGNITION TEMPERATURE	
150°F		TCC		N/A		N/A	
NFPA CODES		HEALTH		3		HMIS CODES:	
		FLAMMABILITY		0		HEALTH	
		REACTIVITY		1		FLAMMABILITY	
		OTHER		N/A		REACTIVITY	
						PROTECTION	
EXTINGUISHER MEDIA:		Foam, CO2, Dry chemical					

SPECIAL FIRE FIGHTING PROCEDURES: This product does not burn (water based). Fire fueled by an independent source may be intense enough to cause thermal decomposition. Toxic metal particulate may be generated. Use full protective equipment and self-contained air unit.

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A



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SECTION V - REACTIVITY DATA

IS THIS CHEMICAL STABLE UNDER NORMAL CONDITIONS OF HANDLING/STORAGE (Y/N)? Y
CONDITIONS TO AVOID (REGARDING STABILITY): Water based - avoid freezing.
INCOMPATIBILITY (MATERIALS TO AVOID): Aluminum & Zinc (galvanized metal) in conjunction with acid.
HAZARDOUS DECOMPOSITION PRODUCTS: F, Na₂O, and As
HAZARDOUS POLYMERIZATION POSSIBLE (Y/N)? N
CONDITIONS TO AVOID (REGARDING POLYMERIZATION): N/A

SECTION VI - HEALTH HAZARDS

ROUTES OF ENTRY: Skin, oral, inhalation.
SIGNS AND SYMPTOMS OF ACUTE OVEREXPOSURE: Dermal - irritant to skin and mucous membranes. Oral - dizziness, thirst, nausea, shock. Inhalation exposure is rare due to the physical nature of this product.
CHRONIC OVEREXPOSURE: Chronic skin exposure may cause eczematous, dermatitis and liver damage. Chronic oral exposure may cause jaundice and liver damage.
CHEMICAL LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN?:

- NATIONAL TOXICOLOGY PROGRAM (Y/N): Y
- IARC MONOGRAPHS (Y/N): Y
- OSHA (Y/N): Y

*Tri-sodium arsenate is a confirmed human carcinogen with experimental tumorigenic data.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known



EMERGENCY AND FIRST AID PROCEDURES



① EMERGENCY PHONE NUMBER OF MANUFACTURER: CHEMTREC 1(800) 424-9300

1. INHALATION: Move victim to fresh air. Apply respiration if indicated.
2. EYE CONTACT: Flush eyes with plenty of water for at least 15 minutes. Do not use chemical antidote.
3. SKIN CONTACT: Remove contaminated clothing and wash with water thoroughly for at least 15 minutes. If skin burns, apply magnesium oxide paste with 20% glycerin. Do not use oils. If severe exposure, call a physician.
4. INGESTION: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give any thing by mouth to an unconscious person.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

HAZARD CLASS: 6.1
U.S. DOT ID : Poisonous liquids, n.o.s.

UN/NA NUMBER: 2810
PACKAGING GROUP: II

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Do not breathe spray mist. Use good personal hygiene. Wash before eating or smoking. Store in tightly closed cans. Keep away from children. Wear clean clothing.

OTHER PRECAUTIONS: Read label before using.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Avoid contact. Absorb with dirt, sawdust or any suitable absorbent. Place waste in drum and dispose in hazardous waste landfill.

WASTE DISPOSAL METHODS: Triple rinse container with water. Pour rinsate into pail. Dispose of can in approved landfill. Dirty can and contaminated soil bury in hazardous waste landfill. This product is toxic to fish. Do not contaminate water! Dispose in accordance with Federal, State and local laws.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: Normally not need due to outdoor use. If TLV is exceeded, use NIOSH approved respirator.

VENTILATION REQUIREMENTS: None if used according to label instructions.

PROTECTIVE GLOVES: Rubber

EYE PROTECTION: Chemical goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: As necessary to avoid dermal contact. Launder contaminated clothing before reuse.

WORK/HYGIENIC PRACTICES: Wash with soap and water after handling and before eating or smoking. Wear clean clothing.

SECTION IX - REGULATORY INFORMATION:

SARA/TITLE III ;SECTION 312 - HAZARD CATEGORIES:

Immediate (Acute) Health: Yes	Reactive Hazard: No
Delayed (Chronic) Health: Yes	Sudden Release of Pressure: No
Fire Hazard: No	



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SARA/TITLE III (continued):

SECTION 302:

Sodium arsenate is listed as an extremely hazardous substance with a TPQ of 10,000 pounds.

SECTION 304:

Sodium arsenate has a RQ of 1 pound, sodium dichromate has a RQ of 10 pounds and sodium fluoride has a RQ of 1,000 pounds.

Report if a release or spill exceeds the listed reportable quantities.

SECTION 311 & 312:

Report if Threshold Planning Quantity (TPQ) is exceeded on any give day .

SECTION 313:

This product contains sodium arsenate and sodium bichromate. Both arsenic and chromium compounds subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and to CFR Part 372.

N/A = Not Applicable

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