

Osmose MATERIAL SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET: **HOLLOW HEART CF**

SECTION I

MSDS NUMBER:	21-UTL
MSDS CODE:	UTL
SYNONYMS:	N/A
MANUFACTURED BY:	Osmose Utilities Services, Inc.
DIVISION:	N/A
EPA REGISTRATION NUMBER:	75341-12
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:	January 7, 2004
DATE LAST REVISED:	June 9, 2004

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 CF	CAS	OSHA PEL	ACGIH TLV	OTHER	%
Copper Naphthenate	1338-02-9	1 mg/M ³ as Cu	1 mg/M ³ as Cu	N/A	41.27
Sodium Fluoride, Tech.	7681-49-4	2.5 mg/M ³ as F	2.5 mg/M ³ as F	RQ = 1000 pounds	8.39
Monoethanolamine	141-43-5	3 ppm	3 ppm	N/A	8 - 10

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)
Not Determined	N/A	Not Determined	1.16	Not Determined	Not Determined
WEIGHT PER GALLON	pH:	VAPOR PRESSURE	VAPOR DENSITY	DENSITY	EVAPORATION RATE BASIS (N-BUAC) = 1
9.66 lb/gal.	9.76	N/A	N/A	See Specific Gravity	Not Determined
SOLUBILITY IN WATER: Soluble			REACTIVITY IN WATER: N/A		
APPEARANCE AND ODOR: Dark blue solution, amine-like odor.					

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	METHOD	FLAMMABLE LIMITS IN AIR (%)	AUTOIGNITION TEMPERATURE		
> 200°F	TCC	N/A	N/A		
NFPA CODES	HEALTH	3	HMIS CODES:	HEALTH	3
	FLAMMABILITY	1		FLAMMABILITY	1
	REACTIVITY	0		REACTIVITY	0
	OTHER	COR		PROTECTION	B*
EXTINGUISHER MEDIA: CO ₂ , Dry chemical, water fog, foam			*eye protection and gloves		

SPECIAL FIRE FIGHTING PROCEDURES: Toxic vapors given off during combustion. Use proper protection equipment such as a self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

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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): None Known.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong acid and oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen fluoride, CO, CO₂, CU fumes, sulfur fumes, oxides of carbon and nitrogen.

HAZARDOUS POLYMERIZATION POSSIBLE (Y/N)? N

CONDITIONS TO AVOID (REGARDING POLYMERIZATION): N/A

SECTION VI - HEALTH HAZARDS

ROUTES OF ENTRY: Eyes, skin, inhalation.

SIGNS AND SYMPTOMS OF ACUTE OVEREXPOSURE: **Eye** – Extremely irritating. Contact may cause corneal damage, including iridal and conjunctival effects. Can cause irreversible damage on prolonged contact. **Skin** – Corrosive. May cause skin burns on prolonged or repeated contact. A skin sensitization study indicates that this product is not a skin sensitizer. **Inhalation** – May cause irritation to the respiratory tract. **Ingestion** – Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Can result in some corrosive action to the mouth, throat, esophagus, and stomach tissue.

CHRONIC OVEREXPOSURE: None known

CHEMICAL LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN?:

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

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

TOXICITY DATA

Acute Oral LD50:	1,878 mg/kg (up/down method)
Dermal LD50:	> 2,000 mg/kg
Acute Inhalation LC50:	> 2.07 mg/L
Primary Eye Irritation:	Test not performed due to corrosiveness to skin.
Dermal Irritation:	Corrosive
Skin Sensitization:	NOT a skin sensitizer



EMERGENCY AND FIRST AID PROCEDURES



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

1. INHALATION: Move victim to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep victim warm and quiet. Get medical attention.
2. EYE CONTACT: Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
3. SKIN CONTACT: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control center or doctor for treatment advice.
4. INGESTION: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

USDOT SHIPPING DESCRIPTION: Corrosive liquid, n.o.s., 8, UN1760, II (contains monoethanolamine)

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store away from food or feed in a secure, well ventilated area protected from extreme temperatures. Do not allow to freeze. Do not transfer to an unmarked container. Keep container closed when not in use. Observe good personal hygiene practices. Change protective gloves/clothing when signs of contamination appear. Keep away from children. Read and follow label instructions.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear protective clothing. Recover free liquid. Absorb remainder with sand or clay and place in a waste receptacle. Follow all local, state and federal regulations for disposal. Do not contaminate water while cleaning equipment or disposing of wastes. Prohibit contamination of streams, lakes, or other bodies of water.

WASTE DISPOSAL METHODS: If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. Open dumping is prohibited. Pesticide wastes are acutely hazardous. Do not reuse empty container. Triple rinse container (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: Normally not needed. If TLV of any component is exceeded, use a NIOSH/MSHA approved respirator.
VENTILATION REQUIREMENTS: If applying in enclosed spaces, ventilate via mechanical methods (general or local exhaust) to maintain exposure below TLV(s). Good industrial hygiene practice dictates that indoor work areas should be isolated and provided with adequate local exhaust ventilation.
PROTECTIVE GLOVES: Wear impervious gloves, such as nitrile rubber, neoprene, PVA, PVC, or NBR (Buna-N). Special precautions should be taken to ensure that material cannot get inside gloves.
EYE PROTECTION: Safety glasses with side protection required.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: As necessary to avoid skin contact.
WORK/HYGIENIC PRACTICES: Wash hands before eating, smoking, or after work. Launder clothing before reuse.

SECTION IX - REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65: N/A

SARA/TITLE III ;SECTION 312 - HAZARD CATEGORIES:

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

SECTION 302:

N/A

SECTION 304:

Sodium fluoride has a reportable quantity of 1000 pounds.

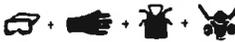
SECTION 311 & 312:

Report if inventory exceeds 10,000 pounds on any given day.

SECTION 313:

This product contains COPPER NAPHTHENATE, A COPPER COMPOUND, which is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

HAZARDOUS MATERIALS INFORMATION SYSTEM (HMIS) PERSONAL PROTECTION INDEX

A 	H 
B 	I 
C 	J 
D 	K 
E 	X Ask your supervisor for guidance
F 	
G 	

N/A = Not Applicable

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