

**MERICHEM CHEMICALS & REFINERY SERVICES LLC**

5455 Old Spanish Trail

Houston, Texas 77023

24 Hr Emergency: 205/556-1556

CHEMTREC: 800/424-9300

**COPPER NAPHTHENATE**

**A. PRODUCT INFORMATION**

**Product Code:** Copper naphthenate / CuNap  
**Common Name/Synonyms:** Naphthenic Acid, Copper Salt  
**Chemical Name(s):** See Section G  
**DOT Shipping Name/ID No.:** Combustible Liquid, NOS/NA 1993  
**HMS Rating:** Health-1 Flammability-2 Reactivity-0  
Least=0; Slight=1; Moderate=2; High=3; Extreme=4;  
**Product Appearance/Description:** Blue-green liquid

**B. FIRST AID INFORMATION**

**Eye Contact:** May cause eye irritation. Immediately flush the eyes with plenty of running water, including under the eyelids, for at least 15 minutes. If irritation persists, get medical attention.

**Skin Contact:** May cause skin irritation. Immediately wash from the skin by removing contaminated clothing and flushing the exposed area with water and soap. If irritation persists, get medical attention.

**Inhalation:** May be harmful if inhaled. Remove to fresh air. Have qualified person restore and/or support breathing with oxygen, if needed. Keep warm. If irritation persists, get medical attention.

**Ingestion:** May be harmful if swallowed. Quickly give 3 or more glasses of milk or water to drink. Do not induce vomiting. Aspiration of liquid into the lungs due to vomiting can cause chemical pneumonitis.

**NOTE TO PHYSICIAN**

No specific antidote is known. Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical conditions.

**C. HEALTH HAZARD DATA**

This material is not listed as a carcinogen by IARC, NTP or OSHA.

This material meets the following health hazard definition(s) according to the OSHA Hazard Communication Standard (29 CFR 1910.1200):

_____	Highly Toxic	_____	Corrosive
_____	Toxic	<u>  x  </u>	Irritant
_____	Non-Hazardous	_____	Sensitizer
_____	Information Not Available		

MSDS Date: 6/99

## **D. HANDLING AND STORAGE PRECAUTIONS**

Avoid contact with eyes, skin or clothing.  
Avoid breathing vapors, mists or spray.  
Do not take internally.  
Use with adequate ventilation.  
Use respiratory protection when overexposure to vapors, mists or spray is possible.  
When handling, wear chemical splash goggles, face shield, heavy PVC or butyl/viton gloves and protective clothing.  
Keep containers closed.  
Store containers in cool, well ventilated areas away from ignition sources.

## **E. PERSONAL PROTECTION INFORMATION**

**Ventilation:** Use adequate ventilation to control exposure.

**Respiratory Protection:** Use NIOSH/MSHA approved air purifying respirator equipped with organic vapor cartridge(s) to minimize respiration exposure. In case of a spill or leak resulting in unknown concentration, use NIOSH/MSHA approved air supplied respirator.

**Eye Protection:** Wear chemical safety goggles and a full face shield to protect against splashing.

**Skin Protection:** Wear chemical resistant gloves when handling this material. Heavy PVC or butyl-viton is recommended. Gloves may be decontaminated by washing with soap and water.

**Other Protective Clothing and Equipment:** Impervious protective clothing and chemically resistant footwear should be worn to minimize contact.

## **F. SPILL, LEAK AND DISPOSAL PROCEDURES**

Evacuate area.  
Shut off ignition sources.  
Only properly trained personnel should respond to spills or leaks.  
Wear protective equipment and/or garments as specified in Section E.  
When entry must be made into an area where the concentration is unknown, use NIOSH/MSHA approved self-contained breathing apparatus (SCBA) and protective equipment as described in Section E.  
Absorb spilled liquid onto inert material and transfer into disposal drums.  
Large spills should be removed using a vacuum truck.  
Wash spill area with water and foam (AFFF) and absorb onto inert material and transfer into disposal drums.  
Spills on areas other than pavement, e.g., dirt, sand, etc., may be handled by removing the affected soils and placing in approved containers.

## **F. SPILL, LEAK AND DISPOSAL PROCEDURES (CONT'D)**

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**WASTE DISPOSAL**

The materials resulting from clean-up operations of a spill may be hazardous and, therefore, subject to specific regulations. Package, store, transport and dispose of all clean-up materials and any contaminated equipment in accordance with all applicable federal, state and local regulations. Shipments of waste materials may be subject to manifesting requirements per applicable regulations. Appropriate disposal will depend on the nature of the waste and should be performed by competent and properly permitted contractors. Ensure that all responsible federal, state and local agencies receive proper notification of spill and disposal methods.

Spills or releases should be reported, if required, to the appropriate local, state and federal regulatory agencies.

This material does not contain substances with Reportable Quantities (RQs).

**MATERIAL REPORTABLE UNDER TITLE III, SECTION 313**

The following substance(s) are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372. The substances(s) may not be reflected in Section C or G of this MSDS.

<u>Substance</u>	<u>CAS No.</u>	<u>Approx. Wt. %</u>
Copper Compounds	Not Applicable	1-8% (as Cu)

Product and/or components entered on EPA's TSCA inventory: YES

**G. CHEMICAL OR HAZARDOUS COMPONENTS**

<u>Component</u>	<u>CAS No.</u>	<u>Wt. %</u>	<u>Approx. PEL (ppm)</u>	<u>Exposure Guidelines</u>	
				<u>OSHA mg/m<sup>3</sup></u>	<u>ACGIH TLV</u>
Copper Naphthenate	1338-02-9		10-80	1 mg/m <sup>3</sup> *	
Hydrocarbon Solvent	68334-30-5		20-90		5 mg/m <sup>3</sup>

\*for copper dusts/mists (as Cu)

**H. FIRE AND EXPLOSION DATA**

<b>Flash Point:</b>	>125°F (>51°C) (Cleveland Open Cup)
<b>Explosive Range in Air; % by Vol.</b>	
- Lower:	Not Established
- Upper:	Not Established
<b>Fire Extinguish. Media:</b>	Water Fog, AFFF (Foam), Dry Chemical, CO <sub>2</sub>
<b>Special Fire Fighting Procedures:</b>	Use water spray to cool fire exposed surfaces and to protect personnel. Isolate fuel supply from fire if possible. Use NIOSH/MSHA approved self-contained breathing apparatus.

**H. FIRE AND EXPLOSION DATA (CONT'D)**

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**Fire and Explosion Hazards:** Moderate hazard. Liquid may burn upon heating to temperatures at or above flash point. If heated to decomposition, flammable and toxic gases may be released. Container explosion may occur under fire conditions.

## I. REACTIVITY DATA

**Stability:** Stable  
**Conditions to Avoid:** Not Established  
**Incompatibility (Materials to Avoid):** Strong oxidizing agents, acids, bases  
**Hazardous Polymerization:** Not known to occur  
**Hazardous Decomposition Products:** Carbon Dioxide, Carbon Monoxide, Acids and aldehydes may be formed when material burns

## J. PHYSICAL DATA

**Appearance:** Blue-green Liquid  
**Odor:** Petroleum  
**Odor Threshold:** <1 ppm  
**pH:** Not Established  
**Boiling Point:** 540-640°F (282-338°C)  
**Freezing Point:** Not Established  
**Reid Vapor Pressure:** Not Established  
**Specific Gravity:** 0.97-.98 @ 68°F/63°F  
**Vapor Density (Air=1):** >1  
**Solubility in Water:** Insoluble  
**Coefficient of Octanol/Water Separation:** Not Available

## K. ADDITIONAL COMMENTS

This material is **FOR INDUSTRIAL USE ONLY.**

The information on this form is furnished solely for the purpose of enabling those who transport, handle or use our products to ensure the safety and health of their employees and to comply with various laws and regulations (federal, state and local). This information is offered in good faith and is believed to be accurate. Merichem, however, makes no guarantee or warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use hereof.