



# MATERIAL SAFETY DATA SHEET

Emergency Telephone: 800-800-7620

COPPER CARE PRODUCT NAME:  
**SMDC-FUME**

ATTENTION: SAFETY MANAGER  
USA EPA Registration Number: 1448-437-54471  
USA EPA Est. Number: 54471-NB-001

Date of Last Revision: 04/10/08

## I. OSHA HAZARD CLASSIFICATIONS

Sensitizer. Irritating to eyes and skin.

## II. HAZARDOUS COMPONENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>% by Weight</u>	<u>TLV</u>
1) Sodium N-methyldithiocarbamate	137-42-8	33	Not Available

While some substances are claimed as trade secret in accordance with the provision of OSHA 29 CFR 1910.1200(i), all known hazards are clearly communicated within this document.

## III. FIRST AID INFORMATION

Eye Exposure: Flush immediately with copious amounts of tap water or normal saline (minimum of 15 minutes). Take exposed individual to a health care professional, preferably an ophthalmologist, for further evaluation.

Skin Exposure: Wash exposed area with plenty of water. Repeat washing. Remove contaminated clothing and wash thoroughly before reuse. If irritation persists consult a health care professional.

Inhalation: If exposure by inhalation is suspected, immediately move exposed individual to fresh air. If individual experiences nausea, headache, dizziness, has difficulty in breathing or is cyanotic, seek a health care professional immediately.

Ingestion: DO NOT INDUCE VOMITING. Rinse with copious amounts of water or milk, first. Irrigate the esophagus and dilute stomach contents by slowly giving one (1) or two (2) glasses of water or milk. Avoid giving alcohol or alcohol related products. In cases where the individual is semi-comatose, comatose or convulsing, DO NOT GIVE FLUIDS BY MOUTH. In case of intentional ingestion of the product seek medical assistance immediately; take individual to nearest medical facility.

## IV. PRIMARY ROUTES OF EXPOSURE

### 1. Effects from Acute Exposure:

Eye Exposure: Hazardous in case of eye contact (irritant)

Skin Exposure: Hazardous in case of skin contact (irritant, sensitizer). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering

Inhalation: May be harmful if inhaled. Do not breathe spray mists of the undiluted product. Effects will depend upon solution strength and length of time of exposure.

Ingestion: Ingestion is not expected to be a primary route of exposure.

### 2. Effects from Chronic Exposure:

Inhalation at high levels of mist can cause irritation to lung tissue due to corrosive characteristics.

**V. TOXICOLOGICAL INFORMATION**

Acute Effects:

Acute Oral (LD50) = 1170 mg/kg Rat  
Acute Dermal (LD50) = 1470 mg/kg Rabbit

Irritant/Sensitization Effects:

Hazardous in case of eye contact (irritant).  
Hazardous in case of skin contact (irritant, sensitizer). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.  
May be harmful if inhaled. Do not breathe spray mists of the undiluted product. Effects will depend upon solution strength and length of time of exposure.

Carcinogenic Potential:

Not tested by Copper Care Wood Preservatives, Inc. Not shown as a carcinogen by OSHA, IARC, or NTP. Laboratory studies have shown some developmental and carcinogenic effects in laboratory animals. Exposure monitoring studies conducted during normal agricultural applications of metam sodium have shown that human exposure is extremely low; therefore, any potential risk to humans from metam sodium exposure is considered minimal.

Target Organs Effects:

May cause damage to the following organs: upper respiratory tract, skin, eyes.

Other Health Effects:

None known. N-methylthiocarbamates: Animal tests have identified the skin, liver and urinary bladder as target organs. These effects have not been reported in humans.

**VI. ENVIRONMENTAL TOXICOLOGICAL INFORMATION**

No information available.

**VII. PHYSICAL AND CHEMICAL PROPERTIES**

<i>Appearance</i> .....	Clear yellow to yellow-green liquid
<i>Odor</i> .....	Sulfide.
<i>Density</i> .....	1.15 (25°C/77°F)
<i>Flash Point</i> .....	Closed cup: >100°C(212°F). (Tagliabue.)
<i>Melting/Freezing Point</i> .....	<0°C (32°F)
<i>Boiling Point</i> .....	>100°C (212°F)
<i>Solubility</i> .....	Easily soluble in cold water. Easily soluble in hot water.
<i>pH (Neat)</i> .....	10 [Basic.]
<i>pH (100 ppm in water)</i> .....	8-9
<i>Vapor Pressure</i> .....	Not Available
<i>o/w Partition Coefficient</i> .....	Not Available
<i>Oxidizing/Reducing Properties</i> ...	Not Available
<i>Viscosity</i> .....	Not Available
<i>Additional pH Information</i> .....	Not Available
<i>Voc Content</i> .....	0 lbs/gal

NOTE: The physical data presented above are typical values and should not be construed as specifications.

**VIII. FIRE AND EXPLOSION INFORMATION**

*Flammable Limits*.....Not available.

*Extinguishing Media*..... Water fog, carbon dioxide, foam, dry chemical.

*Special Firefighting Procedures*..... Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

**IX. REACTIVITY INFORMATION**

*STABILITY*..... Stable greater than 30 days @ 50 C (122 F).

*INCOMPATIBILITY*..... Strong acids, strong oxidizers, corrosive to aluminum.

**HAZARDOUS DECOMPOSITION PRODUCTS**.....

Carbon disulfide and dimethylamine may be generated upon acidification. Thermal decomposition of product may generate vapors of hydrogen sulfide. Contact with fire of strong oxidants may generate carbon oxides (CO, CO<sub>2</sub>) and water, nitrogen oxides (NO, NO<sub>2</sub>...), and sulfur oxides (SO<sub>2</sub>, SO<sub>3</sub>...) and methyl isothiocyanate.

**X. HANDLING PRECAUTIONS**

Eye wash fountains in the work place are STRONGLY recommended. Applicators must wear chemically resistant gloves, protective clothing, and goggles or face shield. If splashing can occur, a face shield and chemical resistant apron are advisable.

**XI. SATISFACTORY MATERIALS OF CONSTRUCTION**

- Teflon.
- Plexiglas
- PVC-rigid
- Buna-N rubber
- EPDM rubber
- PVC-flexible
- Neoprene
- Polyethylene – low density
- Tygon
- Silicone rubber
- Hypalon
- Stainless steels 304 and 316
- 6/6 Nylon
- Polyethylene – high density



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

### **SPILL AND LEAK RESPONSE GUIDELINES**

Important: Before responding to a spill or leak of this product, review section each of this MSDS. Follow the recommendations given in the Handling Precautions sections. Check the Fire and Explosion Data section to determine if the use of non-sparking tools is merited. Insure that spilled or leaked product does not come into contact with materials listed as incompatible. If irritating fumes are present, consider evacuation of enclosed areas.

Emergency Response Assistance: Emergency technical assistance is available at any time from Copper Care by calling (800)800-7620.

Initially minimize area affected by the spill or leak. Block any potential routes to water systems (e.g., sewers, streams, lakes, etc). Based on the product's toxicological and chemical properties, and on the size and location of the spill or leak, assess the impact on contaminated environments (e.g. water systems, ground, air equipment, etc.). There are no methods available to completely eliminate any toxicity this product may have on aquatic environments. Minimize adverse effects on these environments. Copper Care Wood Preservatives, Inc. can be contacted for technical assistance. Determine if federal, state, and/or local release notification is required (see Regulatory Classifications section of this MSDS). Recover as much of the pure product as possible into appropriate containers. Later, determine if this recovered product can be used for its intended purpose. Address clean-up of contaminated environments. Spill or leak residuals may have to be collected and disposed of. Clay, soil, or commercially available absorbents may be used to recover any material that can not readily be recovered as pure product. Flushing residual material to an industrial sewer, if present at the site of a spill or leak incident, may be acceptable if authorized approval is obtained. If product and/or spill/leak residuals are flushed to an industrial sewer, insure that they do not come into contact with incompatible materials. Contact the person(s) responsible for the operation of your facility's industrial sewer system prior to intentionally flushing or pumping spills or leaks of this product to the industrial sewer.

### **DISPOSAL GUIDELINES**

Note: Follow federal, state, and local regulations governing the disposal of waste materials.

Neat Product: Contact Copper Care Wood Preservatives, Inc. at (800) 800-7620

Contaminated Materials: Determine if waste containing this product can be handled by available industrial effluent system or other on-site waste management unit. If off-site management is required, contact a company experienced in industrial waste management. This product is not specifically listed in 40 CFR 261 as a Resource Conservation and Recovery Act (RCRA) hazardous waste. However, spill or leak residuals may meet the criteria of a characteristic hazardous waste under this Act. Check the characteristics of the material to be disposed of and/or the physical and reactivity data given in this MSDS for the neat product.

Container Disposal: Empty containers, as defined by appropriate sections of the RCRA, are not RCRA hazardous wastes. However, insure proper management of any residuals remaining in container.

## **XIII. TRANSPORTATION AND SHIPPING INFORMATION**

DOT Shipping Information:

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Metam Sodium),  
Class 9, P.G. III, MARINE POLLUTANT (ERG Guide 171)

IMO/IMDG Shipping Information:

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metam Sodium),  
Class 9, P.G. III, MARINE POLLUTANT, (EmS No. F-A, S-F, ERG Guide 171, HazMat Code 4966319)

IATA Shipping Information:

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Metam Sodium),  
Class 9, P.G. III, MARINE POLLUTANT (ERG Guide 171, ERG Code 9L)

DOT "RQ": NONE



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## XIV. TRANSPORTATION AND SHIPPING INFORMATION (CONT')

Unless otherwise stated, the shipping information provided above applies only to non-bulk containers of this product. Proper shipping name and general shipping information may vary depending on packaging and mode of shipment. All products shipped from Copper Care locations have been properly packaged and labeled according to appropriate hazardous materials shipping regulations. If any alteration of packaging, product, or mode of transportation is further intended, different shipping information, including but not limited to proper shipping name, RQ designation, and labeling may apply. For further information pertaining to the shipping requirements for this product, contact Copper Care Wood Preservatives, Inc.

## XV. REGULATORY INFORMATION

The following Regulations are known to apply to the use and disposal of this product. Additional Federal, State and Local regulations may also be applicable.

### SARA (Superfund Amendments and Reauthorization Act)

SARA 302 Extremely Hazardous Substances List...

No components of this product are listed.

SARA 312 Hazard Category...

Immediate (Acute) Health Hazard

SARA 313 Toxic Chemicals List...

This product contains the following toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372:

Sodium N-methyldithiocarbamate

### CERCLA (Comprehensive Environmental Response, Compensation and Liability Act)

No components of this product are present above the *de minimus* levels.

### RCRA (Resource Conservation and Recovery Act) Listed Hazardous Waste

No components of this product are listed.

### CWA (Clean Water Act) Listed Substances

No components of this product are listed.

### FDA (Food and Drug Administration)

This product is not approved for food contact uses.

### TSCA (Toxic Substances Control Act) Applicability

All components may not be listed on the TSCA Inventory. Registered pesticides are exempt from the Requirements of TSCA.

### FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act)

This product is a registered pesticide. EPA Reg. No. 1448-437-54471

HMIS/NPCA Rating Health 2 Flammability 1 Reactivity 1

NFPA Ratings Health 2 Flammability 1 Reactivity 1

### State Regulations

Various State Right To Know Acts...

Non-proprietary hazardous chemicals are listed in Section 2 of this MSDS. Should you require further information on specific proprietary or inert ingredients please contact Copper Care Wood Preservatives, Inc.



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The information on this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application which is not described in the Data Sheet is the responsibility of the user. This Material Data Safety Sheet was prepared to comply with the OSHA Hazard Communication regulations. While some components are claimed Trade Secret under OSHA Hazard Communication regulations, all known OSHA hazards associated with the Trade Secret component(s), if contained in this product, are fully disclosed.

Copper Care Wood Preservatives, Inc. warrants that this product conforms to its chemical description and is reasonably fit for the purpose referred to in the directions for use when used in accordance with the directions under normal conditions. Buyer assumes the risk of any use contrary to such directions.

Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including **NO IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE**. No such warranties shall be implied by law and no agent of seller is authorized to alter this warranty in any way except in writing with a specific reference to this warranty.

The exclusive remedy against seller shall be in a claim for damages not to exceed the purchase price of the product, without regard to whether such a claim is based upon breach of warranty or tort.

Any controversy or claim arising out or relating to this contract, or breach thereof, shall be settled by arbitration in accordance with the commercial arbitration rules of the American Arbitration Association, and judgment upon the rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof.