

QNAP8™

COPPER NAPHTHENATE CONCENTRATE

Kills subterranean termites, drywood termites, wood destroying beetles, powderpost beetles, carpenter ants and decay fungi. • Contains No Synthetic Carboxylic Acids • Produced from 100% recycled Copper Metal and by-products from the refining industry • Non-Emulsion Forming • Non-Sludging • Non-Corrosive to Utility Hardware (Railroad Spikes and Tie Plates) • Non-Conductive • Can Help Prevent “Spike Kill” when Combined with Borate Treatments • Treated Wood Does Not Become Brittle or Hard • Reduces Hardening of the Wood Which Allows for Increased Gaff Penetration • Provides Water Repellency

Active ingredient:

Copper Naphthenate (CAS No. 1338-02-9).....68%*

Other ingredients..... 32%

Total..... 100%

Contains Petroleum Distillates

***Equivalent to 8% Copper.**

EPA Reg. No. 64405-16 Est. 57018-GA-02

KEEP OUT OF REACH OF CHILDREN

WARNING

First Aid	
If in Eyes:	<ul style="list-style-type: none"> • 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.
If on Skin or Clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Immediately rinse skin with plenty of water for 15-20 minutes.
If Swallowed:	<ul style="list-style-type: none"> • Do not give person any liquids. • Do not give anything by mouth to an unconscious person. • Do not induce vomiting unless told to do so by the poison control center or doctor.
If Inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
Call a poison control center or doctor for further treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.	

PRECAUTIONARY STATEMENTS

Personal Protective Equipment (PPE)

- Applicators, mixers and other handlers must wear chemical resistant gloves, protective eyewear, long-sleeved shirt, long pants, socks and shoes when handling or applying this product.
- When applying this product to non-pressure treated wood, blend/spray operators and any individual that applies the product with a brush/roller must wear an organic vapor respirator.

Some materials that are chemical-resistant to this product are barrier laminate; butyl, nitrile, neoprene and natural rubbers ≥ 14 mils; polyethylene; polyvinyl chloride; and viton ≥ 14 mils. If you want more options, follow the instructions for category C on an EPA chemical-resistance category selection chart.

User Safety Requirements

Follow manufacturer's instructions for cleaning/ maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Users must:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet;
- Remove clothing immediately if pesticide gets inside, then wash thoroughly and put on clean clothing;
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Hazards to Humans & Domestic Animals

WARNING

Causes skin and eye irritation. Prolonged or repeated skin contact may cause allergic reaction in some individuals. Harmful if swallowed or inhaled. Do not breathe vapors or mist during brush, roll, and dip applications.

Wear chemical resistant gloves, protective eyewear, long-sleeved shirt, long pants, socks and shoes when handling or applying this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Application of this product may produce a strong, lingering, unpleasant odor.

Environmental Hazards

This product is toxic to aquatic invertebrates, shrimp and oysters/clams. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your state water board or regional office of the EPA. Wood treated with this product shall not be used in the construction of beehives.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

NOTICE

Read and understand the entire label before using. Use only according to label directions.

Before buying or using this product, read **Warranty Disclaimer** and **Limitation of Remedies** statements found elsewhere on this label. If terms are unacceptable, return unopened package to seller for full refund of purchase price. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under the **Warranty Disclaimer** and **Limitation of Remedies**.

QNAP8 Copper Naphthenate Concentrate treated wood will control and prevent infestation of destroying organisms including subterranean termites, drywood termites, wood destroying beetles, powderpost beetles, carpenter ants and decay fungi. It may also be used to protect resist warping, swelling, shrinking, end checking due to its antiwicking property, wood rot, mold and mildew, and moss. QNAP8 meets the American Wood Protection Association (AWPA) end cut requirements for exterior and ground contact field treatments (AWPA M4).

Solutions of QNAP8 Copper Naphthenate Concentrate can be applied to wooden and cellulose utility and construction products (including lumber, end cuts, timber, rail ties, posts, poles, freeway fencing, siding, piers, docks, boxes, roofs, shakes, shingles, porches, steps, fences, rails and beverage cases). QNAP8 Copper Naphthenate Concentrate treated wood is suitable for ornamental or planting landscape timbers, wooden seedling trays, outdoor décor, flower boxes and window boxes. The treated wood can be top-coated with paint or stain.

QNAP8 Copper Naphthenate Concentrate must be diluted with a solvent such as mineral spirits, diesel fuel, mineral oil or another solvent that meets AWPA Standard. Effective application rates vary according to severity of conditions to which the treated product is exposed but for guidance see the American Wood Protection Book of

Standards for the applicable use category or commodity. Wood to be treated should be thoroughly seasoned and free of bark to maximize penetration.

Do not use QNAP8 treated wood for garden applications where fruit and/or vegetables will be grown. This product is not designed for application on decks, outdoor furniture or other structures intended for seating or heavy foot traffic. Do not apply at sites on or near water or wetlands. Wood treated with QNAP8 Copper Naphthenate Concentrate should not be used where it may come in contact with food, feed or potable water.

FOR PRESSURE TREATMENT

Wood used in critical (structural) above-ground applications or that may be exposed to severe conditions such as extended periods of wetting, can be subjected to an extended soaking or pressure treatment with a solution containing 0.5% to 1.0% copper metal to a retention in the wood of 0.04 to 0.13 lbs copper metal/ ft³ (in accordance with AWPA Standards).

WOOD TREATMENT: REMEDIAL APPLICATIONS

A QNAP8 Copper Naphthenate Concentrate solution of 2% copper metal may be used for remedial treatment of standing wood poles, piling and other existing structures.

IMPORTANT: This product will tint the wood. The color will fade over time.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in original container in a preferably locked storage area inaccessible to children and pets. Do not freeze. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Handling:** Refillable container; refill this container only with QNAP8. Do not reuse this container for any other purpose. Cleaning the container before refilling is the responsibility of the refiller; cleaning before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with solvent, then vigorously agitate or recirculate with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure 2 more times, then offer for recycling, if available, or reconditioning, if appropriate; or puncture and dispose of in a sanitary landfill; or by incineration.

Warranty Disclaimer

Manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. To the extent not prohibited by applicable law, **MANUFACTURER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

Inherent Risks of Use

The directions for use of this product are believed to be adequate and must be carefully followed. It is impossible to eliminate all risks associated with use of this product. Lack of performance or other unintended consequences may result because of such factors as use of the product contrary to label instructions, abnormal conditions, the

presence of other materials, climatic conditions or the manner of application, all of which are beyond the control of the Manufacturer. The buyer/user assumes all such risks.

Limitation of Remedies

To the extent not prohibited by applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability or other legal theories) shall be limited to, at Manufacturer's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used.

To the extent not prohibited by applicable law: a) Manufacturer shall not be liable for losses or damages resulting from handling or use of this product unless

Manufacturer is promptly notified of such loss or damage in writing; and b) **IN NO CASE SHALL MANUFACTURER BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OR LOSSES, INCLUDING WITHOUT LIMIT, HEALTH RELATED DAMAGES OR INJURIES.**

The terms of this **Warranty Disclaimer** and **Limitation of Remedies** cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Manufacturer or the seller is authorized to vary or exceed the terms of this **Warranty Disclaimer** or **Limitation of Remedies** in any manner.

It is not intended that this product be used to practice any patent, whether mentioned or not, without procurement of a license, if necessary, from the owner, following investigation by the user.



Nisus Corporation

100 Nisus Drive • Rockford, TN 37853 • 800-264-0870

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MATERIAL SAFETY DATA SHEET**QNAP™ 8****Copper Naphthenate Concentrate**

Health Emergencies: CHEMTREC® (800) 424-9300

SECTION 1 – PRODUCT & COMPANY INFORMATION

MANUFACTURER: Nisus Corporation
100 Nisus Drive
Rockford, TN 37853
(800) 264-0870 (U.S.)

PRODUCT NAME: QNAP™8 Copper Naphthenate Concentrate

TSCA: TSCA 8(b) inventory: Copper Naphthenate

Chemical Name: Copper Naphthenate 8% Cu

SECTION 2 – COMPOSITION

Name	CAS #	% by Weight
Copper Naphthenate	1338-02-9	68%
Diesel Fuel #2	68476-34-6	32%

SECTION 3 – HAZARD INFORMATION

Hazard Rating: NFPA

Health	1
Flammability	2
Reactivity	0

Potential Acute Health Effects: Is a skin and eye irritant. Is of low acute mammalian toxicity by inhalation or ingestion.

Potential Chronic Health Effects:

Carcinogenic Effects: Not a listed carcinogen by IARC, NTP or OSHA.

Mutagenic Effects: Not a listed mutagen.

Teratogenic Effects: Not known to be a teratogen

Developmental Toxicity: Not known to cause developmental effects

SECTION 4 – EMERGENCY AND FIRST AID PROCEDURES

If in Eyes	<ul style="list-style-type: none"> 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.
If on Skin or Clothing	<ul style="list-style-type: none"> Take off contaminated clothing. Immediately rinse skin with plenty of water for 15-20 minutes.
If Swallowed	<ul style="list-style-type: none"> Do not give person any liquids. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless told to do so by a poison control center or doctor.
If Inhaled	<ul style="list-style-type: none"> Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
Call a poison control center or doctor for further treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.	

SECTION 5 – FIRE & EXPLOSION DATA

Flash Point: >185°F (>85°C) (Cleveland Open Cup)

Explosive Range in Air; % by Vol.

- **Lower:** Not Established

- **Upper:** Not Established

Extinguishing Media: Water Fog, AFFF (Foam), Dry Chemical, CO₂

Special Fire Fighting Procedures: 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.

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.

SECTION 6 – SPILL OR LEAK 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 8.
- 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 8.
- 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.

SECTION 7 – HANDLING AND STORAGE

Store between 40°F and 90°F. Do not store in direct sunlight. Keep containers tightly closed.

Store in areas not accessible to children and pets.

Do not store with strong oxidizers.

Locked storage is required for EPA registered materials.

SECTION 8 – SPECIAL 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.

SECTION 9 – PHYSICAL DATA

Appearance: Dark green viscous oil

Density: 8.3 to 8.6 lb/gal.

% Volatile: >32% by weight by (as diesel)

Boiling Point: 250° F

Odor: Pungent oily/diesel

% Solubility in Water: 0%

Solvent: Soluble in mineral spirits or organic solvents.

SECTION 10 – REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Exposure to strong oxidizing agents.

INCOMPATIBILITY (MATERIALS TO AVOID): This material is incompatible with strong oxidizing agents.

HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS: carbon monoxide, carbon dioxide, inorganic copper.

SECTION 11 – TOXICOLOGY

Toxicological Data on Ingredients:

QNAP8: ACUTE ORAL (LD₅₀): > 2000 mg/kg
Diesel Fuel #2: ACUTE ORAL (LD₅₀): >5000 mg/kg [Rat]
ACUTE DERMAL (LD₅₀): >5000 mg/kg [Rabbit]
Copper Naphthenate: ACUTE ORAL (LD₅₀): 2000 mg/kg [Rat]
1897 mg/kg [Mouse]

Routes of Entry: Absorbed through skin. Eye contact.
Inhalation. Ingestion.

Toxicity to Animals:

Copper Naphthenate: ACUTE ORAL (LD₅₀): 1897 mg/kg [Mouse]
Diesel Fuel #2: ACUTE DERMAL (LD₅₀): >5000 mg/kg [Rabbit]

Special Remarks on Toxicity to Animals: Diesel Fuel #2: Inhalation (mist) Lethal Dose/Conc: >5500 mg/m³/4H [Rat].

Chronic Effects on Humans: Contains material which may cause damage to the following organs: blood, kidneys, the nervous system, and peripheral nervous system.

Special Remarks on other Toxic Effects on Humans:

Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, and of inhalation.

Acute Potential Health Effects:

Skin: It may cause skin irritation.

Eyes: Contact may cause eye irritation. Contact may also cause conjunctivitis. Vapors may be irritating to the eyes.

Inhalation: This product may cause upper respiratory tract, irritation. Excessive inhalation of this product's vapors, which contains Diesel Fuel #2, may affect behavior/central nervous system and cause dizziness, drowsiness, somnolence, convulsions, tremors, lightheadedness, passing-out, impairment of short-term memory, loss of coordination and judgment, personality changes (withdrawal, irritability), fatigue, sleep disturbances, headache, giddiness, fatigue, headache, stupor, unconsciousness, followed by coma. It can also affect the nerves supplying internal organs (autonomic nerves) and/or peripheral nerves to the legs and arms (weakness, "pins and needles"). It can also cause nausea and vomiting, chest pain, difficulty breathing. It may also affect the liver and kidneys.

Ingestion: Slightly toxic. Ingestion of copper salts may produce vomiting, metallic taste, headache, cold sweats, shock, jaundice, swollen liver, kidney damage, CNS depression, and death from CNS depression, or delayed death from kidney or liver failure. Whether such serious effects occur following copper naphthenate ingestion is unknown.

Chronic Potential Health Effects:

Ingestion: Prolonged or repeated ingestion may cause anemia.

Skin: Prolonged or repeated skin contact may cause drying and cracking of the skin (defatting), dermatitis, irritation, skin ulcers or pruritic eczema.

Inhalation: Repeated or prolonged inhalation can affect behavior/central nervous system with symptoms similar to that of acute inhalation. It may also cause kidney damage and affect the blood (normocytic anemia).

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to algae, avoid contamination to water bodies.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. Long-term degradation products are likely to be carbon dioxide and inorganic copper that typically adsorbs to organic material in soil.

Toxicity of the Products of Biodegradation: Not likely to produce toxic or bioavailable materials.

SECTION 13 – DISPOSAL CONSIDERATION

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.

<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

SECTION 14 – TRANSPORTATION INFORMATION

DOT Classification: CLASS 3: Combustible Liquid

Identification: Combustible Liquid, N.O.S. (Contains #2 Diesel), Class 3, UN 1993 PGIII

SECTION 15 – REGULATORY INFORMATION

EPA Reg. No. 64405-16

Federal and State Regulations: Copper Naphthenate SARA 313 toxic chemical notification and release reporting: Copper Naphthenate 70%

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

DSCL (EEC):

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 2

Reactivity: 0

Personal Protection: G

SECTION 16 – OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall manufacturer be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if manufacturer has been advised of the possibility of such damages.



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