



# QNAP<sup>®</sup>5w Copper Naphthenate Concentrate

## Safety Data Sheet

Issue Date: 02-Jun-2021

Revision Date: 04-May-2022

Version 2

### 1. IDENTIFICATION

#### Product identifier

**Product Name** QNAP5w Copper Naphthenate Concentrate

#### Other means of identification

**SDS #** NIS-QNAP5W

**Registration Number(s)** EPA Reg. No. 64405-14  
**UN/ID No** UN2491

#### Recommended use of the chemical and restrictions on use

**Recommended Use** Wood preservative.

#### Details of the supplier of the safety data sheet

##### Manufacturer Address

Nisus Corporation  
100 Nisus Drive  
Rockford, TN 37853

#### Emergency telephone number

**Company Phone Number** Phone: (800)-264-0870  
Fax: (865) 577-5825  
**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

### 2. HAZARDS IDENTIFICATION

**Emergency Overview** This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

**Appearance** Blue liquid

**Physical state** Liquid

**Odor** Amine

#### Classification

Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

#### Signal Word

**Danger**

#### Hazard statements

Harmful in contact with skin  
Harmful if inhaled  
Causes severe skin burns and eye damage

**Precautionary Statements - Prevention**

Wear protective gloves/protective clothing/eye protection/face protection  
 Use only outdoors or in a well-ventilated area  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Wash face, hands and any exposed skin thoroughly after handling

**Precautionary Statements - Response**

Immediately call a poison center or doctor/physician  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a poison center or doctor/physician  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 Call a poison center or doctor/physician if you feel unwell  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Immediately call a poison center or doctor/physician  
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other hazards**

Very toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Copper naphthenate	1338-02-9	45.4
Monoethanolamine	141-43-5	34.6

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST AID MEASURES

**Description of first aid measures**

<b>Eye Contact</b>	Immediately flush victim's eyes with large quantities of water for at least 15-20 minutes, while holding the eyelids apart. Remove contact lenses if easy to do so. Continue rinsing. Get immediate medical attention.
<b>Skin Contact</b>	Immediately wash skin thoroughly with soap and water for at least 15-20 minutes. Remove contaminated clothing. Get immediate medical attention. Launder clothing before reuse.
<b>Inhalation</b>	Move victim to fresh air and keep at rest in a position that is comfortable. If breathing is difficult, administer oxygen or administer artificial respiration. Get immediate medical attention.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth. Do not give anything by mouth to an unconscious person. Get immediate medical attention.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** May be harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes severe skin burns and eye damage.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Immediate medical attention is required for eye contact, skin contact, inhalation and ingestion. Call a poison center or doctor for further treatment advice. Have the product container or label with you when calling a poison center or doctor, or going for treatment. Probable mucosal damage may contraindicated the use of gastric lavage.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use media appropriate for surrounding fire. Cool fire exposed containers and structures with water.

**Unsuitable Extinguishing Media** A solid stream of water or foam directed into hot, burning liquid can cause frothing.

**Specific Hazards Arising from the Chemical**

Product will only burn after removing the majority of the water component.

**Hazardous combustion products** Burning may produce carbon monoxide, carbon dioxide, inorganic copper, and other flammable and toxic gases.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Evacuate spill area and keep unprotected personnel away. Wear appropriate protective clothing as described in Section 8.

**Environmental precautions**

**Environmental precautions** Avoid release to the environment. See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Dike and collect liquid or absorb with an inert absorbent and place in appropriate containers for disposal. Large spills should be removed using a vacuum truck. Wash spill area thoroughly. Prevent spill from entering sewers and watercourses. Report releases as required by local, state and federal authorities.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### **Advice on Safe Handling**

Prevent contact with the eyes, skin and clothing. Avoid breathing mists or aerosols. Wear protective clothing and equipment as described in Section 8. Applicators, mixer 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. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Remove contaminated clothing immediately and wash before reuse. Remove PPE immediately after handling. Wash thoroughly after using and change into clean clothing. Keep containers closed when not in use.

### Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

Store in a cool (between 40°F and 90°F), dry, well-ventilated area away from incompatible materials. Keep out of reach of children and pets. Do not store in direct sunlight. Keep containers tightly closed. Protect from physical damage. Keep in locked storage.

#### **Packaging Materials**

Nonrefillable container. Do not reuse containers. Product residues in empty containers can be hazardous. Follow all SDS precautions when handling empty containers.

#### **Incompatible Materials**

Oxidizers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Copper naphthenate 1338-02-9	TWA: 1 mg/m <sup>3</sup> Cu dust and mist	-	IDLH: 100 mg/m <sup>3</sup> Cu dust and mist TWA: 1 mg/m <sup>3</sup> Cu dust and mist
Monoethanolamine 141-43-5	STEL: 6 ppm TWA: 3 ppm	TWA: 3 ppm TWA: 6 mg/m <sup>3</sup> (vacated) TWA: 3 ppm (vacated) TWA: 8 mg/m <sup>3</sup> (vacated) STEL: 6 ppm (vacated) STEL: 15 mg/m <sup>3</sup>	IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m <sup>3</sup> STEL: 6 ppm STEL: 15 mg/m <sup>3</sup>

### Appropriate engineering controls

#### **Engineering Controls**

Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits. Suitable washing facilities should be available in the work area.

### Individual protection measures, such as personal protective equipment

#### **Eye/Face Protection**

Wear safety goggles and face shield where splashing is possible.

#### **Skin and Body Protection**

Wear impervious gloves such as butyl, nitrile, neoprene and natural rubber >14 mils; polyethylene; polyvinyl chloride; and viton >14 mils. Gloves may be decontaminated by washing with soap and water. Wear long-sleeve shirts, long pants, socks and shoes when using this product.

#### **Respiratory Protection**

In operations where exposure levels are exceeded, a NIOSH approved respirator with methylamine or organic vapor cartridges with approved pesticide prefilter or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134

and good industrial hygiene practice. Refer to the product label for additional information.  
**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b> <b>Appearance</b> <b>Color</b>	Liquid Blue liquid Blue	<b>Odor</b> <b>Odor Threshold</b>	Amine Not determined
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<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	9-10	
<b>Melting point / freezing point</b>	Not determined	
<b>Boiling point / boiling range</b>	>100 °C / >212 °F	
<b>Flash point</b>	>93.3 °C / >200 °F	
<b>Evaporation Rate</b>	Not determined	
<b>Flammability (Solid, Gas)</b>	Liquid-Not applicable	
<b>Flammability Limit in Air</b>		
<b>Upper flammability or explosive limits</b>	Not determined	
<b>Lower flammability or explosive limits</b>	Not determined	
<b>Vapor Pressure</b>	Minimal	
<b>Vapor Density</b>	Not determined	
<b>Relative Density</b>	1.08-1.09	
<b>Water Solubility</b>	Soluble in water	
<b>Solubility in other solvents</b>	Not determined	
<b>Partition Coefficient</b>	Not determined	
<b>Autoignition temperature</b>	Not determined	
<b>Decomposition temperature</b>	Not determined	
<b>Kinematic viscosity</b>	Not determined	
<b>Dynamic Viscosity</b>	Not determined	
<b>Explosive Properties</b>	Not determined	
<b>Oxidizing Properties</b>	Not determined	

### Other information

**VOC Content (%)** 40%

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None known.

### Conditions to Avoid

None known.

### Incompatible materials

Oxidizers.

### Hazardous decomposition products

When heated to decomposition emits carbon monoxide, carbon dioxide and inorganic copper.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Eye Contact</b>	Causes serious irritation with redness, pain and tearing. May cause permanent eye damage.
<b>Skin Contact</b>	Harmful in contact with skin. Causes skin burns with redness and pain.
<b>Inhalation</b>	Harmful if inhaled. Inhalation of mists causes irritation of the nose, throat and upper respiratory tract.
<b>Ingestion</b>	May be harmful if swallowed.

### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Copper naphthenate 1338-02-9	= 2 g/kg ( Rat )	> 2000 mg/kg ( Rabbit )	-
Monoethanolamine 141-43-5	= 1720 mg/kg ( Rat )	= 1000 mg/kg ( Rabbit )	-

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Symptoms</b>	Please see section 4 of this SDS for symptoms.
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### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/irritation</b>	Causes severe skin burns.
<b>Serious eye damage/eye irritation</b>	Causes severe eye damage.
<b>Sensitization</b>	This material is not known to cause sensitization.
<b>Germ cell mutagenicity</b>	Not expected to cause germ cell mutagenicity.
<b>Carcinogenicity</b>	Chronic exposure to copper salts has produced lung and liver damage which sometimes progressed to cancer.
<b>Reproductive toxicity</b>	Not expected to cause reproductive toxicity.
<b>Chronic toxicity</b>	Prolonged contact may cause damage to eyes, blood, kidneys, central nervous system and peripheral nervous system.

### Numerical measures of toxicity

Not determined.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Very toxic to aquatic life with long lasting effects.

**Component Information**

Chemical name	Algae/aquatic plants	Fish	Crustacea
Monoethanolamine 141-43-5	15: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	114 - 196: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 300 - 1000: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 227: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 3684: 96 h <i>Brachydanio rerio</i> mg/L LC50 static 200: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through	65: 48 h <i>Daphnia magna</i> mg/L EC50

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

There is no data for this product.

**Mobility**

Chemical name	Partition coefficient
Monoethanolamine 141-43-5	-1.91

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods**

<b>Disposal of Wastes</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated Packaging</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.

**California Hazardous Waste Status**

Chemical name	California Hazardous Waste Status
Copper naphthenate 1338-02-9	Toxic

**14. TRANSPORT INFORMATION****Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

<b>UN/ID No</b>	UN2491
<b>Proper Shipping Name</b>	Ethanolamine solutions
<b>Hazard class</b>	8
<b>Packing Group</b>	III
<b>Marine Pollutant</b>	This material ships as a marine pollutant when inner package/single container is greater than 119 gallons. (Copper naphthenate).

**IATA**

UN number UN2491  
 Proper Shipping Name Ethanolamine solution  
 Transport hazard class(es) 8  
 Packing Group III

**IMDG**

UN number UN2491  
 Proper Shipping Name Ethanolamine solution  
 Transport hazard class(es) 8  
 Packing Group III  
 Marine Pollutant Yes (Copper naphthenate)

**15. REGULATORY INFORMATION****International Inventories**

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Copper naphthenate	X	ACTIVE	X	X	X	X	X	X	X
Monoethanolamine	X	ACTIVE	X	X	X	X	X	X	X

**Legend:**

*TSCA* - United States Toxic Substances Control Act Section 8(b) Inventory  
*DSL/NDSL* - Canadian Domestic Substances List/Non-Domestic Substances List  
*EINECS/ELINCS* - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
*ENCS* - Japan Existing and New Chemical Substances  
*IECSC* - China Inventory of Existing Chemical Substances  
*KECL* - Korean Existing and Evaluated Chemical Substances  
*PICCS* - Philippines Inventory of Chemicals and Chemical Substances  
*AICS* - Australian Inventory of Chemical Substances

**US Federal Regulations****CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

**SARA 311/312 Hazard Categories**

Acute Health Hazard Yes  
 Chronic Health Hazard No  
 Fire Hazard No  
 Sudden Release of Pressure Hazard No  
 Reactive Hazard No

**SARA 313**

Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
Copper naphthenate - 1338-02-9	1338-02-9	40-50	1.0

**CWA (Clean Water Act)**

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper naphthenate		X		



**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Copper naphthenate 1338-02-9	X		X
Monoethanolamine 141-43-5	X	X	X
Water 7732-18-5			X

**EPA Pesticide Registration Number** EPA Reg. No. 64405-14

**EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**EPA Pesticide Label**

Please see EPA label for additional information

**Difference between SDS and EPA pesticide label**

Please see EPA label for additional information

## 16. OTHER INFORMATION

<b><u>NFPA</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	2	1	0	Not determined
<b><u>HMIS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical hazards</b>	<b>Personal Protection</b>
	2	1	0	Not determined

**Issue Date:** 02-Jun-2021  
**Revision Date:** 04-May-2022  
**Revision Note:** SDS sections updated

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



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