



QNAP[®] 8 MU Copper Naphthenate Concentrate with Diesel Fuel Safety Data Sheet

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Version 2

1. IDENTIFICATION

Product identifier

Product Name QNAP 8 MU Copper Naphthenate Concentrate with Diesel Fuel

Other means of identification

SDS # NIS-QNAP8DFMU

Registration Number(s) EPA Reg. No. 64405-17
UN/ID No NA1993

Recommended use of the chemical and restrictions on use

Recommended Use Wood preservative to control wood destroying insects.

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 Dark, green liquid **Physical state** Liquid **Odor** Pungent, petroleum distillate

Classification

Flammable liquids Category 4

Signal Word

Warning

Hazard statements

Combustible liquid

Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

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	68
Diesel Fuel	68476-34-6	20-32

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

- Eye Contact** 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.
- Skin Contact** 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.
- Inhalation** 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.
- Ingestion** Do NOT induce vomiting. Rinse mouth. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

- Symptoms** May be harmful if swallowed. May be harmful in contact with skin. Suspected of causing cancer.

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 water fog, foam, dry chemical, or carbon dioxide. 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

Combustible liquid. 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 ³ Cu dust and mist	-	IDLH: 100 mg/m ³ Cu dust and mist TWA: 1 mg/m ³ Cu dust and mist
Diesel Fuel 68476-34-6	TWA: 100 mg/m ³ total hydrocarbons inhalable fraction and vapor S*	-	-

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 heavy PVC or butyl-viton. Gloves may be decontaminated by washing with soap and water. If you want more options, follow the instructions for category C on the EPA chemical-resistance category selection chart. 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

Physical state	Liquid	Odor	Pungent, petroleum distillate
Appearance	Dark, green liquid	Odor Threshold	Not determined
Color	Dark green		
Property	Values	Remarks • Method	
pH	Not determined		
Melting point / freezing point	Not determined		
Boiling point / boiling range	149-366 °C / 300.2-690.8 °F		
Flash point	>60 °C / >140 °F		
Evaporation Rate	Not determined		
Flammability (Solid, Gas)	Liquid-Not applicable		
Flammability Limit in Air			
Upper flammability or explosive limits	Not determined		
Lower flammability or explosive limits	Not determined		
Vapor Pressure	Not determined		
Vapor Density	Not determined		
Relative Density	0.99-1.03		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Water Solubility	Insoluble in water	
Solubility in other solvents	Soluble in hydrocarbon solvents	
Partition Coefficient	Not determined	
Autoignition temperature	Not determined	
Decomposition temperature	Not determined	
Kinematic viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	
<u>Other information</u>		
VOC Content (%)	<30%	

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

Eye Contact

May cause irritation with redness and tearing.

Skin Contact

May be harmful in contact with skin. May cause skin irritation with redness and pain.

Inhalation

Inhalation of mists may cause irritation of vapors may cause central nervous system effects, dizziness, drowsiness, somnolence, convulsions, tremors, light-headedness, loss of consciousness, impairment of short-term memory, loss of coordination, personality changes, headache, fatigue, stupor and coma.

Ingestion

May be harmful if swallowed. 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 liver or kidney failure. Whether such effects occur following copper naphthenate ingestion is unknown.

Component Information

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

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Diesel Fuel 68476-34-6	-	> 2000 mg/kg (Rabbit)	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization This material is not known to cause sensitization.

Germ cell mutagenicity Not expected to cause germ cell mutagenicity.

Carcinogenicity Chronic exposure to copper salts has produced lung and liver damage which sometimes progressed to cancer.

Reproductive toxicity Not expected to cause reproductive toxicity.

Chronic toxicity May cause damage to the blood, kidneys, nervous system, and peripheral nervous system. Prolonged skin contact may cause defatting, drying, skin ulcers, or pruritic eczema. Prolonged inhalation can affect behavior and central nervous system as described under inhalation.

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
Diesel Fuel 68476-34-6		35: 96 h Pimephales promelas mg/L LC50 flow-through	

Persistence/Degradability

Not determined.

Bioaccumulation

There is no data for this product.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

- Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.
- Contaminated Packaging** 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** Not regulated if shipped in NON BULK packaging (single containers less than 119 gal/ 882 lbs) by ground transport
BULK Packaging (single containers larger than 119 gal/ 882 lbs):
NA1993
- UN/ID No** NA1993
 - Proper Shipping Name** Combustible liquid, n.o.s. (Copper naphthenate, diesel fuel)
 - Hazard class** Comb liq
 - Packing Group** III
 - Marine Pollutant** This material ships as a marine pollutant when inner package/single container is greater than 119 gallons. (Copper naphthenate).
- IATA**
- UN number** UN3082
 - Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s. (Copper naphthenate)
 - Transport hazard class(es)** 9
 - Packing Group** III
 - Description** Yes
- IMDG**
- UN number** UN3082
 - Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s. (Copper naphthenate)
 - Transport hazard class(es)** 9
 - Packing Group** III
 - Marine Pollutant** Yes

15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
Copper naphthenate	X	ACTIVE	X	X	X	X	X	X	X
Diesel Fuel	X	ACTIVE	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	60-80	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

EPA Pesticide Registration Number EPA Reg. No. 64405-16

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

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

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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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