

Safety Data Sheet CNI COPPER 5%

SDS Number: 804 **Revision:** January 5, 2018

Section 1 · IDENTIFICATION

Product Name CNI Copper 5%

> Other Identification Liquid Copper Lignosulfonate Fertilizer solution

Product Form Mixture

Recommended Use Agriculture Industry - Fertilizer use

Manufacturer

Company Name CNI INC

Address PO BOX 3706, ALBANY, GA, 31706, United States

Telephone (229) 883-5538 Website www.cniag.com

Emergency Contacts (229) 883-5538 CNI, Inc.

> **CHEMTREC** (800) 424-9300 (Domestic)

(703) 527-3887 (International)

Section 2 · HAZARD(S) IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Eye Irrit. 2A H319 Skin Sens. 2 H315 Carc. 2 H351 STOT RE 2 H373 Aquatic Acute 2 H401 Aquatic Chronic 3 H412 Full text of H-phrases: see section 16

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US) : Warning

Hazard Statements (GHS-US) : H315- Causes skin irritation

H320- Causes eye irritation

H335- May cause respiratory irritation



Precautionary Statements (GHS-US)

: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been

read and understood.

P260 - Do not breathe vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas

thoroughly after handling.

P272 - Contaminated work clothing must not be allowed out

of the workplace.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing,

and eye protection.

P302+P352 - If on skin: Wash with plenty of water. P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P308+P313 - If exposed or concerned: Get medical

advice/attention.

P314 - Get medical advice/attention if you feel unwell. P321 - Specific treatment (see section 4 on this SDS). P333+P313 - If skin irritation or rash occurs: Get medical

advice/attention.

P337+P313 - If eye irritation persists: Get medical

advice/attention.

P362+P364 - Take off contaminated clothing and wash it

before reuse.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, and international

Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

Unknown Acute Toxicity (GHS-US)

No data available

Section 3 · COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

Mixture

Name Product Identifier % Classification (GHS-US)

Copper Sulfate 13578-36-2 Proprietary

Section 4 · FIRST-AID MEASURES

Inhalation Remove victim from contaminated atmosphere. If breathing is labored,

administer oxygen. If breathing has ceased, clear airway and start CPR.

Obtain medical attention.

Skin Contact Immediately flush with large quantities of water. Removecontaminated

clothing under a safety shower. Continue rinsing. Obtain medical

attention if irritation occurs.

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Eye Contact Immediately flush with large quantities of water for 15 minutes. Hold

eyelids apart during irrigation to ensure thorough flushing of the entire area

of the eye and lids. Obtain medical attention if irritation occurs.

Ingestion If victim is conscious, give 2 to 4 glasses of water and induce vomiting by

touching finger to back of throat. Obtain medical attention.

General Information Ensure that medical personnel are aware of the material(s) involved, and

take precautions to protect themselves. Show this safety data sheet to the

doctor in attendance.

Section 5 · FIRE-FIGHTING MEASURES

Suitable extinguishing Not flammable, use media suitable for combustibles involved in fire.

Unsuitable extinguishing None known.

Specific hazards arising from the chemical

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: May react violently with oxidants, causing fire and explosion

hazard.

Special protective equipment and precautions for firefighters

Firefighters must wear NIOSH/MSHA approved positive pressure selfcontained breathing apparatus with full face mask and full protective

clothing.

Fire-fighting

Use water spray or fog for cooling exposed containers. Do not breathe equipment/instructions

fumes from fires or vapors from decomposition. Do not allow run-off from

firefighting to enter drains or water courses.

Specific methods Use standard firefighting procedures and consider the hazards of other

involved materials.

General fire hazards Do not enter fire area without proper protective equipment, including

respiratory protection.

Section 6 · ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment specified in Section 8.

Isolate the hazard area and deny entry to unnecessary, untrained and

unprotected personnel.

Methods and materials for containment and cleaning up

Large Spills Shut off release if safe to do so. Dike spill area with earth, sand or other

inert absorbents to prevent runoff into surface waterways (potential

aquatic toxicity), storm drains or sewers.

Recover as much of the spilled product as possible using portable pump and hoses. Use recovered material as originally intended or dispose of as a

chemical waste. Treat remaining material as a small release (above).

Small Spills Confine and absorb small releases with sand, earth or other inert

absorbents.



Shovel up the absorbed material and place in drums for disposal as a chemical waste or recycle as a fertilizer as the original product was

intended.

Environmental Keep out of "waters of the United States" because of potential aquatic

precautions toxicity. This product is a non-hazardous liquid fertilizer.

Section 7 · HANDELING & STORAGE

Precautions for safe Avoid contact with eyes. Use only in a well-ventilated area. Wash

handling thoroughly after handling. Avoid prolonged or repeated contact with the

skin.

Conditions for safe storage, including any incompatibilities

Store in well-ventilated areas. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame. Store totes and smaller containers out of direct sunlight at moderate temperatures.

(See Section 10.5 for materials of construction.)

Section 8 · EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

Proprietary ingredient 6 (Proprietary)

USA ACGIH ACGIH TWA (mg/m³) 1 mg/m³ (inhalable fraction and vapor)

USA ACGIH ACGIH chemical category Skin - potential significant contribution to overall exposure by the

cutaneous route, Confirmed Animal Carcinogen with Unknown

Relevance to Humans

USA NIOSH NIOSH REL (TWA) (mg/m³) 15 mg/m³
USA NIOSH NIOSH REL (TWA) (ppm) 3 ppm

Proprietary glycol (Proprietary)

USA ACGIH ACGIH Ceiling (mg/m³) 100 mg/m³ (aerosol only)

USA ACGIH ACGIH chemical category Not Classifiable as a Human Carcinogen

Proprietary alcohol (Proprietary)

USA ACGIH ACGIH STEL (ppm) 1000 ppm

USA ACGIH ACGIH chemical category Confirmed Animal Carcinogen with Unknown Relevance to Humans

USA NIOSH NIOSH REL (TWA) (mg/m³) 1900 mg/m³
USA NIOSH NIOSH REL (TWA) (ppm) 1000 ppm

USA IDLH US IDLH (ppm) 3300 ppm (10% LEL)

USA OSHA OSHA PEL (TWA) (mg/m³) 1900 mg/m³
USA OSHA OSHA PEL (TWA) (ppm) 1000 ppm

Exposure Controls

Appropriate Engineering Controls : Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment : Protective goggles. Gloves. Protective clothing.

Insufficient ventilation: wear respiratory protection.

Materials for Protective Clothing: Chemically resistantmaterials and fabrics. Hand Protection: Wear chemicallyresistant protective gloves. Eye Protection: Chemical safety goggles.

Skin and Body Protection : Wear suitable protective clothing.

Respiratory Protection : If exposure limits are exceeded or irritation is experienced,

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approved respiratory protection should be worn.

Other Information : When using, do not eat, drink or smoke.

Section 9 · PHYSICAL & CHEMICAL PROPERTIES

AppearanceBrown, liquid.OdorLignon odor

Odor threshold N/A pH N/A

Melting point/freezing point Salt Out Temperature <5°F (<-15°C) (Typical)

Initial boiling point and boiling range ~222°F (106°C) Flash point ~222°F (106°C)

Evaporation rate N/A
Flammability (solid, gas) N/A
Upper/lower flammability or explosive limits

Flammability limit - lower (%) N/A
Flammability limit - upper (%) N/A
Explosive limit - lower (%) N/A
Explosive limit - upper (%) N/A

Vapor density N/A

Relative density 1.18 (11.10 lbs/gal) (Typical)

Specific gravity N/A

Solubility(ies)

Solubility (water) Complete

Partition coefficient (n-octanol/water) N/A
Auto-ignition temperature N/A
Decomposition temperature N/A
Viscosity N/A

Section 10 · STABILITY & REACTIVITY

Reactivity Avoid interaction with heat (flames), oxidizers or acids.

Chemical stability This is a stable product under normal (ambient) temperature and pressure

conditions.

Possibility of hazardous

reactions

None known.

Conditions to avoid Direct sunlight. Extremely high or low temperatures. Sources of ignition.

Incompatible materials.

Incompatible materials Strong oxidizers. This product is not compatible with lead or mercury or

their alloys. These materials of construction should not be used in handling

systems or storage containers for this product

Hazardous

decomposition

products

None known.

Section 11 · TOXICOLOGICAL INFORMATION

Information On Toxicological Effects

Acute Toxicity: Not classified

Extend 97

LD50 Oral Rat > 5050 **LD50 Dermal Rabbit** > 2020 mg/kg

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Proprietary ingredient 2 (Proprietary)

ATE (Oral) 500.00 mg/kg body weight

 ATE (Gases)
 100.00 ppmV/4h

 ATE (Vapors)
 0.50 mg/l/4h

 ATE (Dust/Mist)
 0.05 mg/l/4h

Proprietary ingredient 5 (Proprietary)

LD50 Oral Rat 12400 mg/kg LD50 Dermal Rabbit > 2000 mg/kg

Proprietary ingredient 6 (Proprietary)

LD50 Oral Rat 1820 mg/kg

Proprietary glycol (Proprietary)

LD50 Oral Rat 4700 mg/kg **LD50 Dermal Rat** 10600 mg/kg

ATE (Oral) 500.00 mg/kg body weight
ATE (Dermal) 10,600.00 mg/kg body weight

Proprietary alcohol (Proprietary)

LD50 Oral Rat 4710 mg/kg LD50 Dermal Rabbit 4059 mg/kg

LC50 Inhalation Rat 72.6 mg/l/4h (Exposure time: 4 h)

Proprietary ingredient 3 (Proprietary)

LD50 Oral Rat 1310 mg/kg

Skin Corrosion/Irritation: Not classified.

pH: 6.93

Serious Eye Damage/Irritation: Causes serious eye irritation. Derived from a read across of primary eye irritation study in White New Zealand rabbits. Effects were fully reversible within 21 days, but elicited primary irritation in 2 of 3 tested animals (Pesticide Assessment Guidelines, Subdivision F, Hazard Evaluation: Series 81-5, EPA 540/9-84-014).

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified **Carcinogenicity:** Suspected of causing cancer.

Proprietary ingredient 5 (Proprietary)

IARC group 2B

OSHA Hazard Communication Carcinogen List In OSHA Hazard Communication Carcinogen list.

Proprietary ingredient 6 (Proprietary)

IARC group 2B

OSHA Hazard Communication Carcinogen List In OSHA Hazard Communication Carcinogen list.

Proprietary alcohol (Proprietary)

IARC group 3

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs through prolonged or

repeated exposure.

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May cause irritation to the respiratory tract.

Symptoms/Injuries After Skin Contact: Causes skin irritation. May cause an allergic skin reaction. **Symptoms/Injuries After Eye Contact:** Causes serious eye irritation. Redness, pain, swelling, itching,

burning, tearing, and blurred vision.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: Suspected of causing cancer. May cause damage to organs through prolonged or repeated

exposure.

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Section 12 · ECOLOGICAL INFORMATION

Toxicity

Ecology - General : Toxic to aquatic life. Harmful to aquatic life with long lasting

effects.

Proprietary ingredient (Proprietary)

NOEC chronic fish 0.5 mg/l

Proprietary ingredient 5 (Proprietary)

LC50 Fish 1 3.6 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])

EC50 Daphnia 1 2.15 mg/l (Exposure time: 48 h - Species: Daphnia pulex [Static])
ErC50 (algae) 2.2 mg/l (Exposure time: 72 h - Species: Scenedesmus subspicatus)

Proprietary ingredient 6 (Proprietary)

LC50 Fish 1 4460 (4460 - 4980) mg/l (Exposure time: 96 h - Species: Pimephales

promelas [flow-through])

EC50 Daphnia 1 55 mg/l (Exposure time: 48 h - Species: Daphnia magna)

LC 50 Fish 2 1200 (1200 - 1580) mg/l (Exposure time: 96 h - Species: Pimephales

promelas [static])

EC50 Other Aquatic Organisms 2

ErC50 (algae)

2.1 (2.1 - 2.3) mg/l (Exposure time: 96 h - Species: Pseudokirchneriella

2.2 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata

[Static])

NOEC chronic crustacea 0.78 mg/l

Proprietary glycol (Proprietary)

LC50 Fish 1 41000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1 46300 mg/l (Exposure time: 48 h - Species: Daphnia magna)

LC 50 Fish 2 14 - 18 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

Proprietary alcohol (Proprietary)

LC50 Fish 1 9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-

through])

EC50 Daphnia 1 13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)

EC50 Other Aquatic Organisms 1 1000 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)

LC 50 Fish 2 11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

EC50 Other Aquatic Organisms 2 1000 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)

Persistence and Degradability

EXTEND 97

Persistence and Degradability Not established.

Bioaccumulative Potential

Extend 97

Bioaccumulative Potential Not established.

Proprietary ingredient 6 (Proprietary)

BCF fish 1 (no significant bioconcentration)

Log Pow -2.18 (at 25 °C)

Proprietary glycol (Proprietary)

Log Pow -1.93

Proprietary alcohol (Proprietary)

Log Pow 0.05 (at 25 °C)

Mobility in Soil No additional information available

Other Adverse Effects

Other Information : Avoid release to the environment.

Section 13 · DISPOSAL CONSIDERATION

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Disposal instructions Consult federal, state and local regulations for disposal requirements.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be

disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue,

follow label warnings even after container is emptied.

Section 14 · TRANSPORT INFORMATION

General Not DOT regulated in domestic (USA ground) transportation in package

sizes less than 3,550 lbs (317 gallons); 1,610 kg (1,200 liters). The DOT transportation information below is for shipments with package sizes equal $\frac{1}{2}$

to or exceeding this value. IMDG Regulated Marine Pollutant.

DOT - Basic shipping requirements:

UN number Not regulated for transport

DOT Label Not regulated for transport

Proper shipping name Not regulated for transport

Hazard class Not regulated for transport

Packing group Not regulated for transport

IMGD - Basic shipping requirements:

UN number Not regulated for transport

IMGD Label Not regulated for transport

Proper shipping name Not regulated for transport

Hazard class Not regulated for transport Packing group Not regulated for transport

EMS NO Not regulated for transport

IATA - Basic shipping requirements:

UN number Not regulated for transport

Proper shipping name Not regulated for transport

Hazard class Not regulated for transport Packing group Not regulated for transport

OCAP Not regulated for transport

Environmental hazards

Marine pollutant N/A

Special precautions Read safety instructions, SDS and emergency procedures before handling.

Section 15 · REGULATORY INFORMATION

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the

OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Proposition 65 (CA) Warning: This product contains chemicals known to the State of California

to cause cancer and birth defects or other reproductive harm.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

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CERCLA Hazardous Substance List (40 CFR 302.4)

Reportable Quantity Not applicable

SARA 304 Emergency release notification Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard Yes

Delayed Hazard No Fire Hazard No Pressure Hazard No Reactivity Hazard No

SARA 302 Extremely hazardous substance

SARA 311/312 Hazardous chemical

Immediate (acute) health hazard

Not listed

Delayed (chronic) health hazard

Section 16 · OTHER INFORMATION

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Disclaimer The above information is based on data of which the manufacturer is aware and is

believed to be correct as of the date hereon. Since the information contained herein may be applied under conditions beyond the manufacturer's control and which may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, the manufacturer does not assume any responsibility for the results of its use. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material

for his particular purpose.

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