



North Metal and Chemical Company

## 1. Company Identification and Product Hazard Overview:

**Product Name:** NorthChem 2923, Copper Sulfate Solution  
**Recommended Use:** For industrial or agricultural use.  
**Manufactured by:** NORTH Metal and Chemical Company  
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York, PA USA 17405  
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Email: north@northmetal.net  
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York, PA USA 17403  
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**In Case of Emergency Call CHEMTREC (24 Hours): 1-800-424-9300**

## 2. Hazard Identification:

**GHS Classification:** Acute Toxicity—Oral Category 4  
Acute Toxicity—Dermal Category 4  
Skin Corrosion/Irritation - Category 2  
Serious Eye Damage/Irritation - Category 2

**Signal Word:** WARNING

**Pictogram:**



### Hazard Statements:

**H302** : Harmful if swallowed  
**H312** : Harmful in contact with skin  
**H319** : Causes serious eye irritation  
**H410** : Very toxic to aquatic life with long lasting effects

### Precautionary Statements:

**P264** : Wash face, hands, and any exposed skin thoroughly after handling  
**P270** : Do not eat, drink, or smoke when using this product  
**P280** : Wear protective gloves/protective clothing/eye protection/face protection

### Response Statements:

**P305+P351+P338**: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
**P337+P313** : If eye irritation persists: Get medical advice/attention  
**P301+P310** : IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.  
**P302+P352** : IF ON SKIN: Wash with plenty of soap and water.  
**P332+P313** : If skin irritation occurs: Get medical advice/attention  
**P362+P364** : Take off contaminated clothing and wash it before reuse  
**P330** : Rinse mouth

## 3. Composition/Information on Ingredient:

Common Name	CAS Number	Weight %
Copper sulfate	7758-98-7	22-24%
Water	7732-18-15	76-78%

#### 4. First Aid Measures:

- Eyes** : Flush eyes with running water for at least fifteen minutes. Remove any contact lenses. If irritation persists, get medical aid.
- Skin** : Flush skin with running water for fifteen minutes. Call a physician. Wash contaminated clothing before reuse.
- Ingestion** : Rinse mouth out and promptly drink large quantities of milk, egg white, gelatin solution, or if these are not available, drink large quantities of water. If the product is swallowed, DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Avoid alcohol.
- Inhalation** : If safe to do so, remove individual from further exposure. Supply fresh air. If cough or other symptoms develop, call doctor/poison center immediately.
- Note to Physicians** : Treat symptomatically.

#### 5. Fire Fighting Measures:

- Fire/Explosion Hazard** : Copper Sulfate does not burn nor will it support combustion
- Extinguishing Media** : Use extinguishing media that is appropriate to local circumstances and the surrounding environment.
- General Hazard** : Evacuate personnel downwind in-order to avoid inhalation of irritating and/or harmful fumes and smoke.
- Fire Fighting Procedures**: This product is a non-flammable substance. No acute hazard.
- Special hazards arising from the substance or mixture: Oxides and Sulphur oxides
- Fire Fighting Equipment**: Full protective equipment and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. If possible, firefighters should control run-off water to prevent environmental contamination.

#### 6. Accidental Release Measures:

- Protective Gear for Personnel** : Gloves and eye goggles.
- Spill Clean-up Procedures** : Use a water amenable absorbent to absorb any spillage. Sweep up any absorbed material, place in plastic bags and seal with tape. Place in appropriate containers for disposal. Dispose of contents/containers at an approved waste disposal plant. Prevent run off to storm sewers and ditches leading to natural waterways.
- Environmental Precaution** : Do not allow to enter sewers or ground water, or penetrate the soil.

#### 7. Handling and Storage:

- Handling** : Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8 .
- Storage** : Store in a cool, dry well-ventilated area. Keep containers closed when not in use. Observe all federal, state and local regulations when storing or disposing of this substance. Can be corrosive to steel. Store in plastic or glass. Store away from reducing agents
- Incompatible Materials** : Aluminum powders, acetylene, hydroxylamine, magnesium. Contact with magnesium can generate dangerous levels of hydrogen gas.

#### 8. Exposure Controls and Personal Protection:

##### Exposure Limits:

Chemical Name	ACGIH TLV	OSHA	NIOSH IDLH
Copper Sulfate	TWA: 1mg/m <sup>3</sup> Cu dust & mist	TWA: 1 mg/m <sup>3</sup> Cu dust & mist	IDLH: 100 mg/m <sup>3</sup> Cu dust & mist TWA: 1 mg/m <sup>3</sup> Cu dust & mist

- Engineering Controls** : Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Maintain eyewash / safety shower stations

## 8. Exposure Controls and Personal Protection Continued:

### Personal Protective Equipment:

**Eyes and face:** Wear safety glasses with side shields or goggles when handling this material.

**Skin:** Wear protective clothing and gloves when handling this product to prevent prolonged skin contact. Wear waterproof gloves. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with product's concentrate. Do not reuse them. Keep and wash PPE separately from other laundry.

**Respiratory:** Ensure adequate ventilation, especially in confined areas.

**Work Hygienic Practices:** Facilities storing or using this material should be equipped with emergency eyewash, and a safety shower. Good personal hygiene practices should always be followed. Do not eat, drink, or smoke when using this product.

## 9. Chemical and Physical Properties:

<b>Appearance/Color</b>	: Clear colorless liquid	<b>Partition Coefficient</b>	: Not available
<b>Odor</b>	: Odorless	<b>Solubility</b>	: 32g/100g water @ 20° C,
<b>Odor threshold</b>	: N/A	<b>Melting/Freezing Point</b>	: Not determined
<b>Flash Point</b>	: Will not burn	<b>Boiling Range</b>	: Not determined
<b>Evaporation Rate</b>	: Not determined	<b>Flammability</b>	: Not determined
<b>Auto-ignition Temp</b>	: Not determined	<b>Specific Gravity</b>	: 1.2
<b>Decomposition Temp</b>	: Not determined		
<b>Vapor Density</b>	: Not determined		

## 10. Stability and Reactivity:

**Stability** : The product is stable under normal ambient conditions of temperature and pressure.

### Hazardous

**Decomposition Products** : Toxic gases may be formed by fire

### Hazardous

**Polymerization** : Will not occur

**Incompatible Materials** : Aluminum powders, acetylene, hydroxylamine, magnesium. Contact with magnesium can generate dangerous levels of hydrogen gas

**Conditions to Avoid** : Solutions are mildly corrosive to steel. Store in plastic or rubber or 304,347, or 316 stainless steel

## 11. Toxicological Information:

### Toxicity Data

LD50 oral : 482 mg/kg, rat

LD50 dermal : 20mg/kg, rat

Skin Contact : Harmful in contact with skin

Eye Contact : Avoid contact with eyes

Inhalation : Do not inhale

Ingestion : Harmful if swallowed

Sensitization : None Known

### Chronic Toxicity

Carcinogenic Listings : Not a carcinogen

Mutagenicity : None known

## 12. Ecological Information:

### Ecotoxicity:

Very toxic to aquatic life with long lasting effects

**Biological oxygen demand (BOD)** : Not determined

**Chemical oxygen demand (COD)** : Not determined

## 13. Disposal Considerations:

**Disposal Method** : Dispose of waste at an appropriate waste disposal facility according to current applicable laws and regulations.

**Product Disposal** : Recycle or reuse whenever possible. Uncontaminated waste may be returned to the manufacturer. Disposal should be in accordance with applicable regional, national, and local laws and regulations.

## 14. Transport Information:

Regulatory Information	UN No.	Proper Shipping Name	Hazard Class	Packing Group
US DOT	3082	Environmentally Hazardous Substance, Liquid, NOS (Copper Sulfate)	9	III
IMDG	3082	Environmentally Hazardous Substance, Liquid, NOS (Copper Sulfate)	9	III
IATA	3082	Environmentally Hazardous Substance, Liquid, NOS (Copper Sulfate)	9	III

## 15. Regulatory Information:

### U.S. Federal Regulations:

**TSCA Inventory Status** : This product is listed as active on the TSCA inventory

**CERCLA Section 103**: regulates as a hazardous substance. RQ 10 lbs

**SARA TITLE III (EPCRA) Section 311/312**: This product was found to be on the acute hazard list.

**SARA 313**: This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372 SARA 313 - Threshold Values 1.0%

**California Proposition 65**: This product contains chemicals known to the state of California to cause cancer and birth defects.

**Pennsylvania and New Jersey Right to Know Components**: Copper Sulfate, CAS# 7758-98-7

## 16. Other Information:

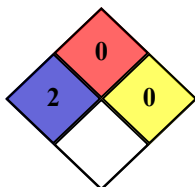
### HMIS Rating:\*

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<b>D</b>

RATING	HEALTH	FIRE HAZARD	PHYSICAL HAZARD
0	No significant risk to health	Will not burn	Product stable under ambient temperature and condition.
1	Can cause irritation or minor reversible injury.	Must be preheated to burn	Product can become unstable at high temperatures and pressures.
2	Can cause temporary or residual injury	Ignites when moderately heated	Product can become unstable and cause violent chemical reaction at normal pressures and temperatures
3	Can cause serious injury	Ignition occurs at normal temperature	Product capable of forming explosive mixtures and is capable of detonation in presence of strong initiating source.
4	Can be lethal from single or repeated exposure.	Extremely flammable	Product is highly explosive and unstable. Exothermic reactions possible with decomposition, polymerization, reaction with water or self reaction

Personal Protection D - Face Shield, gloves, and apron

### NFPA Rating:\*



RATING	HEALTH	FIRE HAZARD	REACTIVITY
0	Minimal Hazard	Will not burn	Normally Stable
1	Can cause significant irritation	Must be preheated to burn	Unstable at high temperatures
2	Can cause temporary incapacitation or residual injury	Ignites when moderately heated	Normally unstable. Can readily go under violent chemical reaction but do not detonate.
3	Can cause permanent injury.	Ignition occurs at normal temperature	Capable of detonation, or of explosive reaction, but requires a strong ignition source.
4	Can be lethal.	Extremely flammable	May explode at normal temperatures and pressures

Revision Date: April 23, 2025

Reasons for Revision : Initial Document Creation.

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