



SAFETY DATA SHEET

Version 3
Revision Date 05/14/2025

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	Copper Solution				
Product Number:			Telephone:	1-800-338-6835	
Brand:	Edvotek			or 202-370-1500	
Supplier:	Edvotek		Fax:	202-370-1501	
1121 5 th Street NW		Washington,	Emergency Phone #:	202-370-1500	
DC 20001			(For both supplier and Manufacturer)		

2. HAZARDS IDENTIFICATION

Emergency Overview:

OSHA Hazards - Acute toxicity, acute aquatic toxicity, eye irritation, harmful if swallowed, causes skin irritation, causes serious eye irritation, very toxic to aquatic life.

GHS Classification

Acute toxicity, Oral	4
Acute aquatic toxicity	1
Skin irritation	2
Eye irritation	2A
Chronic aquatic toxicity	1

Signal Word Warning

Pictogram



Hazard statement(s):

- **H302** Harmful if swallowed.
- **H315** Causes skin irritation.
- **H319** Causes serious eye irritation.
- **H410** Very toxic to aquatic life with long lasting effects

Precautionary statement(s):

- **P264** Wash skin thoroughly after handling.
- **P270** Do not eat, drink or smoke when using this product.
- **P273** Avoid release to the environment.

- **P280** Wear protective gloves/ eye protection/ face protection
- **P301 + P312 IF SWALLOWED:** Call a POISON CENTER or doctor/ physician if you feel unwell.
- **P302 + P352 IF ON SKIN:** Wash with plenty of soap and 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.
- **P332 + P313 If skin irritation occurs:** Get medical advice/ attention.
- **P337 + P313 If eye irritation persists:** Get medical advice/ attention.
- **P362** Take off contaminated clothing and wash before reuse.
- **P501** Dispose of contents/ container to an approved waste disposal plant.

HMIS Classification:

Health hazard:	2
Flammability:	0
Physical hazard:	0

NFPA Rating:

Health hazard:	2
Fire:	0
Reactivity Hazard:	0

Potential Health Effects:

Inhalation May be harmful if inhaled.
Skin Causes skin irritation.
Eyes Causes eye burns.

SDS- Copper Solution

Ingestion May be toxic if swallowed

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Cupric sulfate

Formula : CuO₄S

Molecular Weight : 159.61 g/mol

Chemical name	EC No.	CAS –No	Concentration
Copper Sulfate	231-847-6	7758-98-7	15 mg/ml

4. FIRST AID MEASURES

General information

No special measures required.

Immediately wash off with soap and plenty of water. Get medical attention if symptoms develop.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult doctor in case of complaints.

In case of eye contact

Flush eyes with water as a precaution. Get medical attention immediately if irritation persists.

In case of skin contact

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention if symptoms develop.

5. FIREFIGHTING MEASURES

Conditions of flammability

Not flammable or combustible.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Suitable extinguishing media

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

Hazardous combustion products

Sulphur oxides, Borane/boron oxides, Copper oxides

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Prevent skin/eye contact. Use personal protective equipment as needed.

Environmental precautions

Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

Methods and materials for containment and cleaning up

Clean up spills immediately. Use absorbent materials if needed and dispose into a chemical waste container.

7. HANDLING AND STORAGE

Precautions for safe handling

No special measures necessary. Good laboratory technique should be used when handling.

Conditions for safe storage

No special measures necessary. Store at room temperature.

Incompatible Products

No known products

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Personal protective equipment:

Respiratory protection

SDS- Copper Solution

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Wear protective gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices

Eye protection

Avoid eye contact with this material. Wear chemical safety goggles.

Skin and body protection

Use chemical gloves as needed. Use clean protective body covering clothing as needed to minimize contact with clothing and skin.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wash and dry hands at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form liquid
Colour colorless
Odor no data available

Safety data

pH	no data available	Vapour pressure	no data available
Melting point/freezing point	no data available	Density (water=1)	no data available
Boiling point	no data available	Water solubility	no data available
Flash point	no data available	Partition coefficient:	
Ignition temperature	no data available	n-octanol/water	no data available
Autoignition Temperature	no data available	Relative vapour Density	no data available
Lower explosion limit	no data available	Odour Threshold	no data available
Upper explosion limit	no data available	Evaporation rate	no data available

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No further relevant data available

Conditions to avoid

No further relevant data available

Materials to avoid

No further relevant data available.

Hazardous decomposition products

No dangerous decomposition products

11. TOXICOLOGICAL INFORMATION

Acute toxicity LD/LC50 values - no data available

Serious eye damage/eye irritation - no data available

Respiratory or skin sensitization - no data available

Germ cell mutagenicity - no data available

Skin corrosion/irritation - no data available

Carcinogenicity - No components of this product are listed by IARC, ACGIH, NTP and OSHA.

Reproductive toxicity - no data available

Teratogenicity - no data available

Aspiration hazard - no data available

Synergistic effects - no data available

12. ECOLOGICAL INFORMATION

Toxicity

no data available

no data available

Persistence and degradability

Bioaccumulative potential

no data available

SDS- Copper Solution

no data available

Mobility in soil

no data available

Other adverse effects

no data available

PBT and vPvB assessment

13. DISPOSAL CONSIDERATIONS

Product

Dispose of unused product, residues, and containers according to local, regional, state, and national regulations.

Contaminated packaging

Dispose of as unused product.

14. TRANSIT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards

Acute toxicity, acute aquatic toxicity, eye irritation, harmful if swallowed, causes skin irritation, causes serious eye irritation, very toxic to aquatic life

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards.

16. OTHER INFORMATION

For educational use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.