

**Product Name: COP-PLEX**  
**Product ID # 53**

## SECTION I MANUFACTURER'S INFORMATION

### Manufacturer's Name & Address

NAP Chemical  
 821 S. Chestnut  
 Pasco, WA. 99301

Emergency Telephone Number: 509-547-8234  
 Number for Information: 509-547-8234  
 Date Prepared: January 10, 1992

## SECTION II PRODUCT IDENTIFICATION

Product Name: Copplex ( Micronized Copper ) Sulfate, Pentahydrate  
 Common Synonyms: Copper Sulfate; Copper( II ) Sulfate, Pentahydrate; Blue Vitric  
 Chemical Family: Copper Compounds Health -2 Moderate  
 Formula: CUS04 5H20 Flammability -0 None  
 Formula WT.: 249.68 Reactivity -0 None  
 CAS No.: 7758-99-8 Contact -2 Moderate  
 NIOSH/RTECS No.: GL8900000

### U.S. Precautionary Statement

**WARNING:** Causes irritation. harmful if swallowed. Avoid contact with eyes, skin, clothing. Keep in tightly closed container. Use with adequate ventilation. Washing thoroughly after handling.

### International Statement

Harmful if swallowed Irritating to respiratory system and skin. After contact with skin, washing immediately with plenty of soap and water.

## SECTION III COMPONENTS

Component	CAS No.	Weight %	OSHA/Pel	ACGIH/TLV
Cupric Sulfate, 5-Hydrate	7758-99-8	90-100	1 MG/M3	1 MG/M3

## SECTION IV PHYSICAL DATA

Boiling Point : 100° C Vapor Pressure (MMHG): N/A  
 Melting Point;653° C (1207° F) Decomposes Vapor Density(AIR=1): N/A  
 (At 760 MM HG)  
 Specific Gravity: 1.26 Evaporation Rate: N/A  
 Solubility(H2O): Appreciable (10) % Bolatiles By Volume:0(21 c)  
 pH: -N/A Odor Threshold: -N/A Physical State: -Liquid  
 Coefficient Water/Oil Distribution: -N/A Appearance & Odor Dark Blue Liquid

## SECTION V FIRE AND EXPLOSION DATA

Flash Point ( Closed Cup ): -N/A Auto Ignition Temperature: N/A  
 Flammable Limits: Upper - N/A Fire Extinguishing Media Lower - N/A  
 Sue Extinguishing Media Appropriate For Sounding Fire

### Special Fire-Fighting Procedures

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Unusual Fire & Explosion Hazards: Note: Decomposes at melting point.

Toxic Gases Produced: Sulfur Dioxide

Explosion Data-Sensitivity To Mechanical Impact: None Identified

Explosion Data-Sensitivity To Static Discharge: None Identified

## SECTION VI HEALTH AND HAZARD DATA

Threshold Limit Value(TLV/TWA): -1 mg/m3

TLV is for copper, dusts and mists as CU

Short-Term Exposure Limit (STEL): -Not Established

Permissible Exposure Limit(PEL): -1mg/m3

### Toxicity Of Components

Oral Rat LD50 For Cupric Sulfate, 5-Hydrate 300mg/kg Intraperitoneal Mouse LD5 For Cupric Sulfate, 5 Hydrate 33mg/kg

Carcinogenicity: NTP: No IARC: No Z List: No OSHA Reg.: No

Carcinogenicity: None Identified Productive Effects: None Identified

Effects of Overexposure Inhalation: Irritation of the upper respiratory tract, irritation of mucus membranes.  
Skin Contact: Irritation Eye Contact: Irritation Skin Absorption: None Identified Ingestion: Target  
Nausea, Vomiting , Diarrhea, Gastrointestinal Pain Chronic Effects: Blood Damage  
Organs: Eyes, Skin, Blood Medical Conditions Generally Aggravated By Exposure: None Identified  
Primary Routes of Entry: Inhalation, Ingestion, Skin Contact, Eye Contact

Emergency First Aid Procedures

Ingestion: Call a physician. If swallowed, if conscious, give large amounts of water. Induce Vomiting. Inhalation: If Inhaled, Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Skin Contact: In case of contact, flush skin with water. Eye Contact: In case of eye contact, immediately flush with plenty of water for at least fifteen minutes.

SARA/TITLE III HAZARD CATEGORIES AND LISTS

Acute: Yes Chronic: Yes Flammability: No Pressure: No Reactivity: No  
Extremely hazardous Substance: No Cercla Hazardous Substance: Yes  
TSCA Inventory: Yes Sara 313 Toxic Chemicals: Yes  
Generic Class:

-Contains Cupric Sulfate(RQ=5 lbs.)-Contains Copper -C15

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**SECTION VII REACTIVITY DATA**

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Stability: Stable Hazardous Polymerization: Will not occur  
Conditions to Avoid: Heat  
Incompatibilities: Strong reducing agents, strong oxidizing agents, magnesium.  
Decomposition Products: Oxides of Sulfur

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**SECTION VIII SPILL & DISPOSAL PROCEDURES**

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**STEPS TO BE TAKEN IN THE EVENT OF A SPILL OR DISCHARGE**

Wear self-contained breathing apparatus full protective clothing. With clean shovel, carefully place material into clean, dry container and cover: remove from spill area with water. Disposal Procedure: Dispose in accordance with all applicable Federal, State, and local environmental regulations.

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**SECTION IX INDUSTRIAL PROTECTIVE EQUIPMENT**

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Ventilation: Use general or local exhaust ventilation to meet TLV requirements.  
Respiratory Protection: Respiratory protection required if airborne concentration exceeds TLV. At concentrations up to 8 PPM, a dust mist respirator is recommended. Above this level, self-contained breathing apparatus is advised.  
Eye/Skin Protection: Safety goggles, uniform, rubber gloves, are recommended.

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**SECTION X STORAGE AND HANDLING PRECAUTIONS**

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Storage Requirements: Keep container tightly closed. Suitable for any general chemical storage area. Isolate from incompatible materials.

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**SECTION XI TRANSPORTATION DATA AND ADDITIONAL INFORMATION**

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Domestic ( D.O.T. )  
Proper Shipping Name: Hazardous substance, solid, N.O.S. (cupric sulfate) hydrate  
Hazard Class: ORM-E  
UN/NA: NA9188 Reportable Quantity: 10lbs.  
Labels: None  
Regulatory References: 49CFR 172.101; 173.500; 173.510 International (I.O.M.)  
Proper Shipping Name: Chemical, N.O.S.(non-regulated)  
Marine Pollutants: No AIR ( I.C.A.O. )  
Proper Shipping Name: Chemical, N.O.S. (non-regulated)  
U.S. Customs Harmonization Number: 2833250000  
N/A = Not Applicable or not available N/E = Not established

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