

MATERIAL SAFETY DATA SHEET May be used to comply with OSHA'S Hazard Communication standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.	U.S. DEPARTMENT OF LABOR Occupational Safety and Health Administration (Non-mandatory form) Form Approved OMB No. 1218-0072
IDENTITY (as used on label and list) <p style="text-align: center;">CUPRIC NITRATE</p>	NOTE: Blank spaces are permitted if any item is not applicable, or no information is available the space must be marked to indicate that
Manufacturer's Name <p style="text-align: center;">Triple-S Chemical Prod.</p>	Emergency telephone number: <p style="text-align: right;">(800) 535-5053</p>
Address (Number, Street, City, State and Zip Code) <p style="text-align: center;">3464 Union Pacific Avenue Los Angeles, CA 90023</p>	Telephone Number for Information: <p style="text-align: right;">(323) 261-7301</p>
	Date Prepared: 03/07/06
	Signature of preparer: <p style="text-align: right;">Solomon Motamed</p>

CUPRIC NITRATE CRYSTAL

Formula **Cu(NO₃)₂ · 3H₂O**

Typical Analysis:	Copper	Cu	27.0% + / -0.5%
	Iron	Fe	0.01% Max
	Nickel	Ni	0.01% Max
	Zinc	Zn	0.01% Max
	Chloride	Cl	0.01% Max
	Sulfate	SO ₄	0.01% Max
	Insoluble		

Form Blue Crystal

Standard Package 100 pound fiber drum with polyliner;
9 per pallet

Application Cupric Nitrate is used in dyes, electroplating, paints, varnished, enamels, textiles, catalysts, pharmaceutical preparations, agricultural chemicals, black coloring chemicals for copper, to prepare light sensitive papers, as an analytical reagent, and to produce burnishing effects on iron.

SECTION B – Ingredients and Hazards

INGREDIENT: Cupric Nitrate Trihydrate – SARA 313 Chemical

100.0%

CAS Number: 3251-23-8

Exposure limit: TWS: 1mg/cubic meter as Cu mist or dust

Suspect Carcinogen: No

SECTION C – Physical Data

Appearance:	Blue crystals	Boiling Point:	NA
Odor:	None	Freezing Point:	NA
Specific gravity:	2.3	Vapor pressure:	NA
PH:	NA	Vapor density:	NA
		% volatile by volume:	NA
Evaporation rate:	NA	Solubility in water:	1.378 gm/L

SECTION D- Fire and explosion hazard data

		Hazard Symbol Codes	
		NFPA	HMIS
Flash point:	None	Health: 1	1
Test method:	NA	Flammability: 0	0
Limits:	LEL: NA	Reactivity: 0	0
	UEL: NA	Special: OXY	OXY

Extinguishing media:	Not flammable. Use what is applicable to source of fire.
Special fire fighting procedures:	Self-contained breathing apparatus and full protective gear should be worn.
Unusual fire or explosion hazards:	It is an oxidizer and can intensify burning of combustible and flammable materials.

SECTION E – Reactivity data

Material is stable
Hazardous polymerization will not occur.

Conditions to avoid:	NA
Chemical incompatibilities:	Organic matter, combustible materials and reducing agents.
Hazardous decomposition products:	Oxides of Nitrogen

SECTION F – Health Hazard Data

Summary of risks:	SARA—Acute, chronic, fire hazard.
Medical conditions Which may be Aggravated by contact:	None known
Target organs:	Skin, eyes, liver, kidneys, blood.
Primary entry routes:	through contact
Acute effects:	Irritation
Chronic effects:	Affect target organs.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

Eye contact:	Irritation
Inhalation:	Irritation of mucous membranes of the nose and upper respiratory tract.
Ingestion:	Vomiting, abdominal pain, diarrhea.

EMERGENCY AND FIRST AID PROCEDURES:

Eye contact: Flush with water for 15 minutes and get medical attention.
Skin contact: Flush with water then wash with soap and water.
Inhalation: Remove to fresh air.
Ingestion: if conscious, induce vomiting immediately by giving 2 glasses of water and sticking finger down throat. Call a physician.

SECTION G – Spill, leak and disposal procedures.

Spill/leak procedures: Collect spilled material in the most convenient and safe manner for reclamation or disposal.

Waster management and disposal procedures. Send to an EPA approved waster disposal facility. It may also be dissolved in water and the copper precipitated by using caustic. The copper precipitate can go to a landfill within the POTW discharge limits. Follow all local, state, ad federal regulations.

SECTION H – Protective equipment

Goggles: Chemical goggles
Gloves: Rubber
Respirator: If TWA is exceeded, must be NIOSH or MSHA approved
Other: Sufficient to prevent skin contact.

WORKPLACE CONSIDERATIONS:

Ventilation: Sufficient to keep below TWA limit
Safety stations: Eye wash.
Other: Safety shower

SECTION I – Special precautions

Special handling and storage procedures: Store in a cool, dry area on a non-combustible surface. Keep away from organics and other easily oxidizable materials.

D.O.T. Class: 5.1 UN register: UN-1477
IMCO class: 501 UN register: UN-1477

EXPLANATION OF SYMBOLS

NA = Not applicable

UK = Unknown

The information stated herein is based on information and test we believe to be reliable. The accuracy or completeness thereof is not guaranteed. Since conditions of use are outside our control, user shall, before using, determine the suitability of the product for his intended use and user assumes all risk and liability in connection therewith.