



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

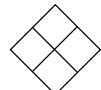
221 Rochester Street
Avon, New York 14414-9409
(585) 226-6177

MSDS No.: CC0545 CC0550
Effective Date: January 1, 2007

CC0535

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Copper (II) Sulfate, Pentahydrate
Chemical Synonyms	Cupric Sulfate, 5-Hydrate
Formula	CuSO ₄ •5H ₂ O
Unit Size	up to 2.5 Kg.
C.A.S. No.	7758-99-8



CHEMTREC
800-424-9300
Day 585-226-6177

Health	2
Fire	0
Reactivity	0

NFPA

HAZARD RATING				
MINIMAL	SLIGHT	MODERATE	SERIOUS	SEVERE
0	1	2	3	4

HMIS*

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Cupric sulfate, pentahydrate	> 99 %	See Section V.

WARNING! HARMFUL IF SWALLOWED OR INHALED.

IRRITANT TO SKIN, EYES AND MUCOUS MEMBRANES.

SECTION III PHYSICAL DATA

Melting Point (°F)	653°C (1207°F)	Specific Gravity (H ₂ O = 1)	2.28 @ 15.6°C
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Appreciable.		
Appearance & Odor	Blue crystals or fine blue powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Use any media suitable for extinguishing supporting fire.				

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, firefighters should wear protective clothing and a NIOSH/MSHA-approved self-contained breathing apparatus. Cupric Sulfate will not burn, nor will it support combustion. Care should be used to keep material out of streams or other water bodies.

(2004 EMERGENCY RESPONSE GUIDEBOOK, RSPA P 5800.7, GUIDE PAGE NO. 171)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products as dust or fume.

SECTION V HEALTH HAZARD DATA CC0535

Threshold Limited Value	(Air) As copper metal (dust): 1.0 mg/m ³ . Copper (fume) TLV 0.2 mg/m ³ . Oral, rat: LD50 300 mg/kg.
--------------------------------	---

Effects of Overexposure	INGESTION: Copper salts impart a metallic taste in mouth. May cause gastrointestinal irritation and vomiting. EYES: Causes conjunctivitis, swelling of the eyelids, ulceration and burns of the cornea. SKIN: Causes irritation. May cause allergic skin reaction. INHALATION: Causes upper respiratory irritation and congestion of the nasal and mucous membranes. Target organs: Liver, kidneys, lungs, spleen.
--------------------------------	--

Emergency and First Aid Procedures	INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. EYES: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. SKIN: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
---	--

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature and heat.
	Stable	X		

Incompatibility (Materials to Avoid)	Avoid contact with hydroxylamine, magnesium and reducing agents. This product can corrode steel and iron. Incompatible with alkalines, phosphates, acetylene, hydrazine and nitromethane.
---	---

Hazardous Decomposition Products	Oxides of sulfur, copper fumes.
---	---------------------------------

Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X
	Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Ventilate the area. Sprinkle lime or soda ash on spill to form insoluble copper salt. Sweep up and place in a suitable container for disposal. Wash spill area with soap and water. Prevent material from entering sewers and waterways.
--	--

Waste Disposal Method	Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.
------------------------------	--

Dispose of in an approved chemical landfill or contract with a waste disposal agency.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be required in normal laboratory use. If dusty conditions prevail, work in a ventilation hood or wear a NIOSH/MSHA-approved dust mask.
--	--

Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety goggles.
--------------------------	---------	-----------------------	--------------------------

Other Protective Equipment	Safety glasses, smock, apron, vented hood, proper gloves, and eye wash station.
-----------------------------------	---

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place. Wash thoroughly after handling.
--	--

Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.
--------------------------	--

Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use with adequate ventilation. Remove and wash contaminated clothing.

D.O.T. RQ, Environmentally hazardous substances, solid, n.o.s., (Cupric sulfate), 9, UN3077, PG III, Ltd Qty ≤ 5 Kg.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

Revision No. 10	Date 01/01/07	Approved James A. Bertsch	Chemical Safety Coordinator JAB
------------------------	----------------------	----------------------------------	--

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards. Printed on recycled paper.