



A Division of Appropriate Chemical International Ltd.

120 Stronach Crescent, London, ON, N5V 3A1

1-800-387-9799 or 519-451-1614

www.anchemsales.com

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Copper Sulphate

C0200-00

SECTION 01: PRODUCT INFORMATION AND COMPANY INFORMATION

MANUFACTURER: Same as above
PREPARED BY: Production Department
VERSION DATE: 27-Jan-14
TELEPHONE NO.: (519) 451-1614
EMERGENCY PHONE NO.: (613) 996-6666
CHEMICAL FAMILY: Not Available **CHEMICAL FORMULA:** Not Applicable
MOLECULAR WEIGHT: Not Applicable **MATERIAL USE:** Please Refer to technical literature
SYNONYMS: Inorganic copper compound

SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	Conc. Approx. %	C.A.S. #	LD/50 (RTE/SPEC)	LC/50 (RTE/SPEC)	TLV
Copper Sulphate	98-100	7758-98-7	N.Av.	N.Av.	N.Av.

SECTION 03: HAZARD IDENTIFICATION

ROUTE OF ENTRY

Eyes: May cause clouding of the cornea.
Skin: Repeated or prolonged contact may cause irritation.
Inhalation: May cause ulceration of the nose and throat.
Ingestion: May cause abdominal pain, nausea and gastritis.

SECTION 04: FIRSTAID

Skin Contact: Remove contaminated clothing and launder before reuse. Wash with soap and water. Get medical attention if irritation persists.
Eye Contact: Immediately flush eyes with copious quantities of water for at least 20 minutes holding lids apart to ensure flushing of the entire surface. Seek immediate medical attention.
Inhalation, Acute: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.
Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

Notes to physician: Treatment based on sound judgment of physician and individual reactions of patient.

SECTION 05: FIRE EXPLOSION HAZARD AND FIRE FIGHTING MEASURES

FLAMMABLE? No
IF YES, UNDER WHICH CONDITIONS?

FLASH POINT (TCC) (C): Not Available
FLAMMABLE LIMITS: **LEL(% BY VOL.):** Not Available **UEL(% BY VOL.):** Not Available
AUTO IGNITION TEMPERATURE (C) Not Available
EXTINGUISHING MEDIA Use extinguishing media appropriate for surrounding fire.
SPECIAL PROCEDURES: Fire fighters should wear full protective clothing, including self-contained breathing equipment.

HAZARDOUS COMBUSTION PRODUCTS: Not Available
UNUSUAL FIRE AND EXPLOSION HAZARDS Not Available
SENSITIVITY TO STATIC DISCHARGE Not Available
SENSITIVITY TO MECHANICAL IMPACT: Not Available

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedure: Personal Precautionary Measures: Wear appropriate protective equipment.
 Environmental Precautionary Measures: Prevent entry into sewers or streams, dike if needed. Consult local authorities.
 Procedure for Clean Up: Isolate hazard area and restrict access. Pick up solids and put in an appropriate sealed container for later disposal.

SECTION 07: HANDLING AND STORAGE

Handling Procedures and Storage Requirements

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing in dust. Wash thoroughly after handling.

Storage: Store in an area that is cool and dry. Protect against physical damage. Store in accordance with good industrial practices.

SECTION 08: PERSONAL PROTECTIVE EQUIPMENT / EXPOSURE CONTROLS

GLOVES/TYPE: Impervious gloves. Rubber gloves.
RESPIRATOR/TYPE: If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. In case of spill or leak resulting in unknown concentration, use a NIOSH approved supplied air respirator.
EYE/TYPE: Safety glasses. Goggles.
OTHER/TYPE: Ensure that eyewash stations and safety showers are proximal to the work-station location.
ENGINEERING CONTROL Localized ventilation should be used to control dust levels.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE/APPEARANCE:	Solid. Crystals or Powder		
ODOUR:	Odourless	ODOUR THRESHOLD:	N. Av.
VAPOUR PRESSURE (mm Hg @ 20C):	N. Av.	VAPOUR DENSITY (Air=1):	N. Av.
EVAPORATION RATE (Ether = 1):	N. Av.	SPECIFIC GRAVITY:	2.286
BOILING POINT (C):	150 C	FREEZING POINT (C)	Decomposes at 560 deg C
Ph (% SOLUTION):	4	% VOLATILE (WT):	N. Av.
SOLUBILITY IN WATER (% W/W)	17% by Wt @ 20°C		

SECTION 10: STABILITY AND REACTIVITY

CHEMICALLY STABLE? Stable

IF NO, UNDER WHICH CONDITIONS?

INCOMPATIBILITY WITH OTHER SUBSTANCES

IF YES, WITH WHICH ONES: Magnesium. Hydroxylamine.

SPECIAL REACTIVITY AND UNDER WHAT CONDITIONS

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of sulphur. Toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL

LC 50 OF MATERIAL, SPECIES AND ROUTE

LD 50 OF MATERIAL, SPECIES AND ROUTE

CARCINOGENICITY OF MATERIAL

REPRODUCTIVE EFFECTS:
IRRITANCY OF MATERIAL
SENSITIZING CAPABILITY OF MATERIAL
SYNERGISTIC MATERIALS

SECTION 12: ECOLOGICAL INFORMATION

AQUATIC TOXICITY

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Disposal of Waste Method: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.
Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

SECTION 14: TRANSPORT INFORMATION

TDG CLASSIFICATION Class 9.2, Cupric Sulphate

UN NUMBER: 9109

PACKING GROUP: II

Special Provisions for Transport

SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION D1B, D2B
D1B TOXIC MATERIALS
D2B TOXIC MATERIALS

SECTION 16: OTHER INFORMATION

ABBREVIATIONS USED: N.Av. = Not Available
N.App. / N.Ap. = Not Applicable

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SOURCES: Supplier MSDS

For updated copies of an MSDS, please contact Anchem Sales at the address/phone number on Page 1 or fax the MSDS Co-ordinator at (519) 451-4593.

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