

Barentz.

Barentz Ingredients Canada Inc.
141 Hamilton Rd
New Hamburg, ON, N3A 2H1
Canada
800-565-2474

PRODUCT: Copper Sulfate**SECTION 1: IDENTIFICATION**

SUPPLIER IDENTIFIER..... Barentz Ingredients Canada Inc.
141 Hamilton Rd
New Hamburg
ON
Canada
N3A 2H1
800-565-2474

PRODUCT CODE..... CA-87-COMCUSUGN-BG
PRODUCT IDENTIFIER..... Copper Sulfate
OTHER MEANS OF IDENTIFICATION.... Not available .
RECOMMENDED USE..... Fertilizer.
RESTRICTIONS ON USE..... Not available .
EMERGENCY TELEPHONE NUMBER.... Barentz (519) 964-8708 .

SECTION 2: HAZARD IDENTIFICATION

HAZARD CLASSIFICATION..... Acute Toxicity (Oral) — Category 4 . Hazardous to the aquatic environment, Short term- Category-Acute 1 . Serious Eye Damage — Category 1 . Hazardous to the aquatic environment, long term- Category-Chronic 1 .

SIGNAL WORD..... Danger .

HAZARD STATEMENT..... H302 Harmful if swallowed . H410 Very toxic to aquatic life with long lasting effects . H318 Causes serious eye damage .

PRECAUTIONARY STATEMENT..... P264 Wash hands thoroughly after handling . P270 Do not eat, drink or smoke when using this product . P273 Avoid release to the environment . P280 Wear protective gloves, protective clothing, eye protection, face protection, hearing protection . P301 + P330 + P316 IF SWALLOWED: Rinse mouth. Get emergency medical help immediately . P305 + P351 + P338 + P316 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get emergency medical help immediately. P391 Collect spillage . P501 Dispose of contents and container in accordance with local, regional, national, and international regulations .

OTHER HAZARDS..... No specific data available .

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	COMMON NAME & SYNONYMS	CAS #	WT. %
Copper Sulphate Pentahydrate	N/A	7758-99-8	<=100

SECTION 4: FIRST-AID MEASURES

ROUTES OF EXPOSURE

INHALATION..... Remove person to fresh air. Keep person in comfortable resting position for breathing. Call a poison center or doctor/physician if you are feeling unwell.

INGESTION..... Rinse mouth with water. Consult a doctor. After swallowing immediately drink water (maximum 2 glasses).

SKIN CONTACT..... Remove contaminated clothing immediately. Wash skin with plenty of water. Get medical attention if irritation develops and persists .

EYE CONTACT..... Flush with water for at least 15 minutes while holding eyelids open . Check for and remove any contact lenses. Get medical attention if irritation develops and persists .

SYMPTOMS AND EFFECTS..... Not available.

IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT Treat symptomatically.

PRODUCT: Copper Sulfate**SECTION 5: FIRE-FIGHTING MEASURES**

SUITABLE AND UNSUITABLE	Use an extinguishing agent suitable for surrounding fire. Carbon dioxide. Dry chemical.
EXTINGUISHING MEDIA	Water.
SPECIFIC HAZARDS.....	No information available .
HAZARDOUS COMBUSTION PRODUCTS	The nature of the decomposition products is unknown. Possibility of formation of dangerous vapors due to fire in the environment . Fire can cause emissions of: sulfur oxides . No fuel .
SPECIAL PROTECTIVE EQUIPMENT	Wear self-contained breathing apparatus and protective clothing . Prevent contamination of surface or groundwater by water that has served to extinguish fires . Suppress
AND PRECAUTIONS FOR FIRE-FIGHTERS	gases/vapours/mists with water spray .

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS &	Use personal protective equipment . Ensure adequate ventilation . Wash thoroughly after handling .
PROTECTIVE EQUIPMENT EMERGENCY PROCEDURES.....	Prevent further leakage or spillage if safe to do so . Avoid dispersal of spilled material to minimize contamination of drains, surface and ground waters . Keep unnecessary and unprotected personnel away .
METHODS AND MATERIALS FOR	Recover the product by vacuuming, shoveling or sweeping . Keep in suitable, properly
CONTAINMENT AND CLEANING UP	labeled, closed containers for disposal . Avoid dust formation . Dispose of in accordance with all Local, State and Federal regulations at an approved waste disposal facility .

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING..	Use only with adequate ventilation . Handle in accordance with good industrial hygiene and safety practice . Wear personal protective equipment . Keep container closed .
CONDITIONS FOR SAFE STORAGE.....	Store in accordance with local regulations . Store in a well-ventilated place . Store in a cool dry place . Keep containers tightly closed when not in use . Storage class (TRGS 510): 13: Non-Combustible Solids .
INCOMPATIBILITIES.....	No information available .

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Copper Sulphate Pentahydrate.	1mg/m3	Not Available	1mg/m3	Not Available		Not Available
APPROPRIATE ENGINEERING	Ensure adequate ventilation. Eyewash stations.					
CONTROLS						
PERSONAL PROTECTIVE EQUIPMENT						
RESPIRATORY PROTECTION.....	Ensure adequate ventilation. In dusty or misty atmospheres, use an approved particulate respirator.					
HAND PROTECTION.....	Chemical-resistant, impervious gloves complying with an approved standard.					
EYE PROTECTION.....	Use close fitting safety goggles complying with an approved standard .					
SKIN PROTECTION.....	Wear suitable protective clothing and suitable protective footwear. Handle in accordance with good industrial hygiene and safety practice.					

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE.....	Solid.
COLOR.....	light blue color.
ODOUR.....	no data available.
MELTING POINT.....	110°C (230°F).
FREEZING POINT.....	110°C (230°F).
BOILING POINT.....	Not available.
BOILING RANGE.....	Not available.
FLAMMABILITY.....	The product is not flammable.
LOWER FLAMMABILITY LIMIT.....	Not available.
UPPER FLAMMABILITY LIMIT.....	Not available.
FLASH POINT.....	Not available.
AUTO-IGNITION TEMPERATURE.....	Not available.
DECOMPOSITION TEMPERATURE.....	Not available.
pH.....	3.7 - 4.5 at 50 g/l at 25 °C (77 °F).
KINEMATIC VISCOSITY.....	Not Available.
SOLUBILITY.....	83.1/100 cc water at 30°C.
PARTITION COEFFICIENT -	Not available.
N-OCTANOL/WATER	
VAPOUR PRESSURE.....	Not available.
DENSITY.....	2,284 gcm ³ .

PRODUCT: Copper Sulfate**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

RELATIVE DENSITY..... Not available.
 RELATIVE VAPOUR DENSITY..... Not available.
 PARTICLE CHARACTERISTICS Not available.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY..... No data available.
 CHEMICAL STABILITY..... The product is chemically stable under normal conditions (at room temperature) .
 POSSIBILITY OF HAZARDOUS REACTIONS Exothermic reaction with: Strong oxidizing agents, hydroxylamine, magnesium .
 CONDITIONS TO AVOID..... No information available.
 INCOMPATIBLE MATERIALS..... No data available.
 HAZARDOUS DECOMPOSITION PRODUCTS Under normal conditions of storage and use, hazardous decomposition products should not be produced .

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
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Copper Sulphate Pentahydrate	Oncorhynchus mykiss (rainbow trout) - 0.032 mg/l - 96 h	Oral - Rat - 300 mg/kg
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ROUTES OF EXPOSURE
 EYE CONTACT..... Eyes - Rabbit. Result: Causes serious eye damage. (OECD Test Guideline 405).
 SKIN CONTACT..... Fur - Rabbit. Result: No skin irritation - 4 h (OECD Test Guideline 404).
 INHALATION..... No data available .
 INGESTION..... Stomach-Irregularities - Based on human evidence .
SYMPTOMS..... No data available.
TOXICOLOGICAL CHARACTERISTICS
 IRRITATION/CORROSION..... No data available.
 CARCINOGENICITY..... NTP: No component is identified in this product, presenting levels greater than or equal to 0.1%, is a known or anticipated carcinogen . OSHA: No component of this product is present at levels greater than or equal to 0.1%, therefore it is not on the OSHA list of regulated carcinogens . IARC: No component of this product is identified at levels greater than or equal to 0.1% as a probable, possible, or confirmed human carcinogen.
 SENSITIZATION..... Maximization Test - Guinea pig Result: negative (OECD Test Guideline 406).
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)..... No data available.
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)..... No data available.
 ASPIRATION HAZARD..... No data available.
 DELAYED AND IMMEDIATE EFFECTS... Fever from inhalation of large amounts of metal vapors.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY..... Fish toxicity: Static test LC50 - Oncorhynchus mykiss (rainbow trout) -0.032 mg/l - 96 h
 Observations: (ECOTOX Database).
 PERSISTENCE AND DEGRADABILITY... The methods for the determination of biological degradability are not applicable to inorganic substances .
 BIOACCUMULATIVE POTENTIAL..... No data available .
 MOBILITY IN SOIL..... No data available .
 OTHER ADVERSE EFFECTS..... Fungicide . Discharge into the environment must be avoided .

SECTION 13: DISPOSAL CONSIDERATIONS

HANDLING PROCEDURES..... The generation of waste should be avoided or minimized wherever possible .
 METHODS OF DISPOSAL..... Dispose in accordance with local, regional, national, international regulations . Dispersion or runoff of the spilled material, contact with the ground, watercourses, drains or sewers is prohibited .
 CONTAMINATED PACKAGING..... Since empty containers may retain product residue, follow label warnings even after container is emptied .

SECTION 14: TRANSPORT INFORMATION

TDG / DOT..... Regulated.
 UN NUMBER..... UN 3077.
 PROPER SHIPPING NAME..... ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Copper sulphate pentahydrate).
 CLASS..... 9.

PRODUCT: Copper Sulfate**SECTION 14: TRANSPORT INFORMATION**

PACKING GROUP.....	III.
IMDG.....	Regulated.
UN NUMBER.....	UN 3077.
PROPER SHIPPING NAME.....	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Copper sulphate pentahydrate).
CLASS.....	9.
PACKING GROUP.....	III.
IATA.....	Regulated.
UN NUMBER.....	UN 3077.
PROPER SHIPPING NAME.....	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Copper sulphate pentahydrate).
CLASS.....	9.
PACKING GROUP.....	III.
ENVIRONMENTAL HAZARDS.....	Marine Pollutant.
TRANSPORT IN BULK ACCORDING TO ANNEX II MARPOL 73/78 AND THE IBC CODE	Not available.
SPECIAL PRECAUTIONS.....	Read safety instructions, SDS and emergency procedures before handling.

SECTION 15: REGULATORY INFORMATION

DSL.....	Not Listed .
TSCA.....	Not Listed .
SARA 302 Components	This material does not contain components with a Section 302 EHS TPQ .
SARA 313 Components	The following components are subject to the reference levels established by SARA Title III, Section 313 Copper sulphate pentahydrate .
Massachusetts Right To Know Components	There are no components subject to the Massachusetts Right to Know Act .

SECTION 16: OTHER INFORMATION

DISCLAIMER.....	All information in this SDS is based upon data obtained from the manufacturer and/or recognized technical sources. This information is believed to be accurate and is offered only as a guide to the handling of this specific material and conditions. The use and handling of this material may require alternate and additional considerations. No warranty of any kind is given or implied and the company will not be liable for any damages, losses, injuries or consequential damages which may result from the information contained herein .
PREPARED BY.....	Regulatory Affairs
LATEST REVISION.....	2026-04-17