

PRMI

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY NO: CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: COPPER (II) SELENIDE

CAS#: 1317-41-5

FORMULA: CuSe

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	1317-41-5	100	0.2 mg/m ³	0.2 mg/m ³

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: DANGER-TOXIC Harmful if inhaled. Harmful if swallowed. Eye irritant. Causes irritation to skin. Causes irritation to upper respiratory tract.

PRIMARY ROUTES OF EXPOSURE: Inhalation, Ingestion, Skin absorption.

EYE CONTACT: Causes irritation of the eyes.

SKIN CONTACT: Causes irritation to skin.

INHALATION: Causes irritation to respiratory tract and acute selenium poisoning.

INGESTION: Poison Harmful if swallowed. May cause gastrointestinal disturbances and selenium and copper toxicity.

ACUTE HEALTH EFFECTS: Toxic by inhalation, ingestion, skin absorption. Eye irritant. Irritating to skin, upper respiratory tract.

CHRONIC HEALTH EFFECTS: Eyes-No chronic health effects recorded. Ingestion-May cause damage to the nervous system, kidneys, and enlarge the liver. Inhalation-May cause ulceration, perforation of the nasal septum and pharyngeal congestion, chronic selenium poisoning. Skin-May cause dermatitis.

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water (lukewarm if possible) for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with mild soap and water. Remove contaminated clothes if necessary. Seek medical assistance if irritation or redness persists.

INHALATION: Remove victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance. Give oxygen if deemed necessary. If not breathing administer CPR. Get emergency care immediately.

INGESTION: Give 1-2 glasses of milk or water and induce vomiting if victim is conscious. Seek medical attention immediately. Never give anything by mouth to an unconscious person.

SECTION 5 Firefighting Measures

FLASH POINT: Not applicable

AUTOIGNITION TEMPERATURE: Not applicable

EXPLOSION LIMITS: Not applicable

EXTINGUISHING MEDIUM: Use suitable extinguishing media for surrounding materials and type of fire.

SPECIAL FIREFIGHTING PROCEDURES: If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing. Cool container with water from maximum distance if possible.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: If involved in a fire this material may emit toxic gases of Selenium by thermal decomposition.

UNUSUAL FIRE OR EXPLOSION HAZARDS: None known

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: Isolate spillage. Use adequate protection when handling which includes high efficiency dust respirator, safety goggles, rubber boots and rubber gloves.

Sweep up, avoiding raising dust, then place in applicable chemical waste container. This material should be prevented from contaminating soil or from sewer and drainage systems and bodies of water.

DISPOSAL: Retain all contaminated soilage for removal and treatment. Dispose of in accordance with all waste disposal regulations.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store in a tightly sealed container. Store in a cool, dry, well-ventilated area. Wash thoroughly after handling. Use in a controlled environment.

SECTION 8 Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, faceshield when handling a chemicals substance in the laboratory.

SKIN PROTECTION: Wear rubber or neoprene.

VENTILATION: Chemical fume hood. Mechanical: Adequate Local: Maintain below TLV, PEL.

RESPIRATOR: If ventilation if not available, a high efficiency dust respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29CFR 1910.34.

ADDITIONAL PROTECTION: Protection to avoid contact with clothing, shoes.(chemical-resistant lab apron, overalls, booties, sleevelets.) Safety shower and eyewash station in area. Do not smoke, eat or drink in area. Use in a controlled environment.

PRECAUTIONS: HARMFUL DUST! TOXIC

Toxic by Inhalation, Ingestion, Skin absorption.

Eye irritant. Irritating by inhalation, ingestion, skin contact.

Do not get in eyes, on skin, on clothing.

Do not breathe dust.

Keep tightly closed when not in use.

SECTION 9**Physical and Chemical Properties**

COLOR AND FORM: Dark-blue to black powder, pieces; Odorless

MOLECULAR WEIGHT: 142.51

MELTING POINT (DEG. C.): 550

SPECIFIC GRAVITY (WATER = 1): No Data

BOILING POINT: No data

VAPOR PRESSURE: Not applicable

VAPOR DENSITY (AIR = 1): 5.99 gm/ml @ 25 deg. C.

% VOLATILE BY VOLUME: Non volatile

SOLUBILITY IN WATER: Insoluble

SECTION 10**Stability and Reactivity**

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None Known

INCOMPATIBILITY: None recorded

DECOMPOSITION PRODUCTS: Fumes of selenium

SECTION 11**Toxicological Information**

CARCINOGENIC EFFECTS: No

MUTAGENIC EFFECTS: No

TETRATOGENIC EFFECTS: No

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12**Ecological Information**

ECOLOGICAL INFORMATION: No information available

SECTION 13**Disposal Considerations**

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14**Transportation Information**

Selenium compound, solid,n.o.s. Class 6.1 UN 3283 PG II (DOT, IATA, ICAO Regulated)

SECTION 15 Regulatory Information

TSCA: No Data

SARA (TITLE 313): None

RCRA STATUS: Meets criteria for toxicity and should be managed as a hazardous waste (EPA No. D002).

SECTION 16 Other Information

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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