

Section 1 - Product and Company Identification

Product Name: Cuprous Chloride
Chemical Formula: CuCl
CAS Number: 007758-89-6
Other Designations: Copper (I) Chloride, Copper Monochloride
General Use: Chemical feed stock / catalyst.
Supplier: INEOS Calabrian Corporation
 5500 Hwy. 366
 Port Neches, Texas 77651
Telephone: 409-727-1471
Fax: 409-727-5803
Emergency Contact: CHEMTREC 800-424-9300

Section 2 - Hazards Identification

Emergency Overview

Target Organs: Respiratory system, eyes, skin, liver and kidneys
GHS Classification: Acute Toxicity, Oral (Category 4)
 Acute Toxicity, Inhalation (Category 4)
 Eye and Skin Damage/Irritation (Category 1)
 Aquatic Environment (Category 1)

GHS Label Elements: Signal Word – ***Danger***

Pictograms



Irritant



Corrosive



Aquatic Toxicity

Hazard Statements: H302 - Harmful if swallowed
 H314 - Causes severe skin burns and eye damage
 H332 - Harmful if inhaled
 H410 – Very Toxic to aquatic life with long lasting effects

Precautionary Statements: P260 – Do not breathe dusts or mists.
 P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P312 – Call a POISON CENTER or doctor/physician if you feel unwell.
 P264 – Wash thoroughly after handling.
 P280 – Wear protective equipment for hands, eyes, face and respiratory tract
 P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P273 – Avoid release to the environment.
 P391 – Collect spillage.

HMIS Classification: Health Hazard 2
Flammability 0
Reactivity 1

Potential Health Effects: Inhalation: Irritant
Eye: Irritant
Skin: Irritant
Ingestion: Harmful if swallowed

Chronic: Prolonged or repeated skin exposure may cause dermatitis. Prolonged or repeated exposure to dusts of copper salts may cause discoloration of skin or hair, blood and liver damage, ulceration or perforation of the nasal septum, runny nose, metallic taste and atrophic changes and irritation of the mucous membrane.

Aggravation of Pre-existing conditions: persons with pre-existing skin disorders, impaired liver, kidney or pulmonary function, glucose 6-phosphate-dehydrogenase deficiency, or pre-existing Wilson's disease may be more susceptible to the effects of this material.

Section 3 - Composition / Information on Ingredients

Composition/Ingredient	CAS Number	% wt or vol
Cuprous Chloride	007758-89-6	> 98 (wt)
Copper	007440-50-8	> 64 (wt)

Section 4 - First Aid Measures

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. DO NOT use mouth-to-mouth resuscitation. If breathing has ceased, get medical aid.

Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Eyes: immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical aid immediately.

Skin: Wipe off excess and immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes. Get medical aid.

Section 5 - Fire-Fighting Measures

Flash Point: Not indicated.
Flash Point Method: Not Applicable.
Burning Rate: Not Applicable.
Auto ignition Temperature: Not Applicable.
LEL: Not Applicable.
UEL: Not Applicable.

Flammability Classification: Not Flammable.
Extinguishing Media: Use extinguishing agent appropriate for surrounding fire conditions.

Unusual Fire or Explosion Hazards: None indicated.
Hazardous Combustion Products: May release corrosive hydrogen chloride.
Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.
Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill / Leak Procedures: Wear appropriate PPE - See Section 8.
Spills / Leaks: Spills should be handled according to a predetermined plan. Avoid runoff into storm sewers and ditches which lead to waterways.
Containment: For large spills, dike far ahead of contaminated runoff for later disposal.

Section 7 - Handling and Storage

Handling: Minimize dust generation and accumulation. Do not get on skin, in eyes or on clothing. Do not ingest or inhale. Use under proper ventilation.
Storage: Keep in tightly closed container in a cool, dry, well-ventilated area away from incompatible substances. Do not store in metal containers (corrosive). Protect from direct light and moisture. Material darkens on exposure to air.

Section 8 - Exposure Controls / Personal Protection

Composition	CAS Number	TWA	STEL	IDLH
Cuprous Chloride	007758-89-6	1 mg/m ³ as Cu	*	*

* None established.

Ventilation: Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at the source.

Respiratory Protection: Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear a SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.*

Protective Clothing / Equipment:	Wear protective gloves, boots, and clothing when necessary to prevent excessive skin contact. Wear protective eyeglasses or goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133).
Safety Stations:	Make emergency eyewash stations, showers, and washing facilities available in the work area.
Contaminated Equipment:	Remove this material from personal protective equipment as needed.
Comments:	Do not eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before food or beverage consumption.

Section 9 - Physical and Chemical Properties

Physical State:	Crystal or Powder	Water Solubility:	0.62 g/100 ml.
Appearance:	Gray/Green	Other Solubility:	NA
Odor Threshold:	Odorless	Boiling Point:	1490 °C
Vapor Pressure:	0.975 mm Hg @ 546 °C	Freezing Point:	NA
Vapor Density (Air=1):	NA	Melting Point:	430 °C
Formula Weight:	98.99	Evaporation Rate:	NA
Density:	NA	pH:	Slightly Acidic
Specific Gravity:	4.14	% Volatile:	NA

Section 10 - Stability & Reactivity

Stability:	Stable under normal conditions.
Polymerization:	Hazardous polymerization will not occur.
Chemical Incompatibilities:	Potassium, acetylene, hydrazine and nitromethane. Reacts violently with lithium nitride and heat.
Conditions to Avoid:	Moisture, light and incompatibles.

Hazardous Decomposition

Products: Oxides of contained metal and halogen.

Section 11 - Toxicological Information

LD50/LC50:

Inhalation, mouse: LC50 = 1008 mg/m³

Oral, mouse: LD50 = 347 mg/kg

Oral, rat: LD50 = 140 mg/kg

Carcinogenicity: Not listed by ACGIH, IARC, NTP or CA Prop 65

Mutagenicity: Mutagenic effects have occurred in experimental animals.

Section 12 - Ecological Information

Ecotoxicity:	Cuprous Chloride is a marine pollutant.
Environmental Transport:	When released into soil or water, this material is not expected to biodegrade or evaporate significantly.
Environmental Degradation:	Poor.
Soil Absorption/Mobility:	Slight.
96 hour LC50 (fish):	460 mg/L

Section 13 - Disposal Considerations

Disposal: Waste determinations typically consider Cuprous Chloride contaminated materials to be non-hazardous.

Disposal Regulatory Requirements: Follow applicable Federal, state and local regulations.

Container Cleaning and Disposal: Follow applicable Federal, state and local regulations.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Copper Chloride
Shipping Symbols: Corrosive
Hazard Class: 8
Subsidiary Hazard: NA
ID No.: 2802
Packing Group: III
Label: GHS label requirements

Section 15 - Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Classification (40 CFR 261):	Not classified
RCRA Hazardous Waste Number (40 CFR 261):	Not listed.
CERCLA Hazardous Substance (40 CFR 302.4):	Not listed.
CERCLA Reportable Quantity (RQ):	NA
Clean Water Act:	Listed as Toxic Pollutant
TSCA:	Listed.
SARA 311/312/313	Reportable as Copper compounds, n.o.s.

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000):	Not listed.
OSHA Specifically Regulated Substance:	Not listed.

Other Regulations:

Proposition 65 (California)	Not listed
WHMIS Classification (Canada):	D1B

Section 16 - Other Information

Previous MSDS issue date: May, 2015
Current SDS issue date: September, 2016
Reason for current revision: Company name change

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