



SANGINITACHEMICALS LTD.

(Erstwhile known as Sanginita Chemicals Pvt. Ltd.)

MANUFACTURERS & SUPPLIERS OF CHEMICALS

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Copper Chloride Anhydrous or Cupric Chloride Anhydrous SDS, Safety Data Sheet MSDS Sheet, Material Safety Data Sheet

1. Product Identification

Product Name & Other Names: Copper chloride anhydrous or Cupric chloride anhydrous or Coppertrace or Copper (2+) chloride anhydrous

CAS No.: 7447-39-4

Molecular Weight: 134.45

Chemical Formula: CuCl₂

Relevant uses and uses advised against (if any): Industrial Manufacturing

SUPPLIER: As per Letterhead.

2. Hazards Identification

GHS, Globally Harmonized System Classification in accordance with 29 CFR 1910

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral Category 4, H302



Skin irritation Category 2, H315

Serious eye damage/eye irritation Category 1, H318

Specific target organ toxicity, single exposure; Respiratory tract irritation Category 3, H335

Hazardous to the aquatic environment, long-term hazard Category 2, H411

Labeling according Regulation (EC) No 1272/2008

GHS Label Elements	GHS Label Elements
	
Aquatic Toxicity	Corrosive

Signal Words: Warning

Hazard statements:

H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

H411: Toxic to aquatic life with long lasting effects.

Precautionary statements:

P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash skin 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.

P330: Rinse mouth

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302+P352: IF ON SKIN: Wash with soap and water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P314: Get Medical advice/attention if you feel unwell.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/ attention.

P360: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

P362: Take off contaminated clothing and wash before reuse.

P391: Collect spillage.

P501: Dispose of contents/ container to an approved waste disposal plant.

Classification according to EU Directives 67/548/EEC or 1999/45/EC:

Hazard Symbols:

Xn Harmful

C Corrosive

N Dangerous for the environment

Risk Phrases:

R 22 Harmful if swallowed.

R 37/38 Irritating to eyes, respiratory system, and skin.

R41 Risk of serious damage to eyes.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/Information on Ingredients

Product Name & Other Names: Copper chloride anhydrous or Cupric chloride anhydrous or Coppertrace or Copper (2+) chloride anhydrous

CAS No.: 7447-39-4

4. First Aid Measures

Always seek medical attention after first aid measures are provided.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact: Wipe off excess material from skin then immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire: Not considered to be a fire hazard.

Explosion: Slightly explosive in presence of heat & Metals.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. At high temperatures or when moistened under fire conditions, it may produce toxic or irritating fumes. On decomposition it may emit hydrogen chloride. Containers may explode on heating

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Ventilate area of leak or spill. Avoid breathing dust/fumes/gas/mist/vapors/spray. Use individual protective equipment (waterproof boots, suitable protective clothing, safety glasses, etc.). Restrict unprotected personnel from the area. Prevent any contact with hot surfaces. Do not approach facing the wind. Do not touch the spilled material.

Environmental precautions: Do not let the product enter drains, soil, or water sources.

Methods and materials used for containment Cleanup procedures and Storage:

Small Spill: Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Contain spilled material. Cover with an inert, non-combustible

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite). Vacuum or sweep-up and remove to an approved disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate as per law.

7. Handling and Storage

Very Harmful! Do not ingest.

Precautions for safe handling: Apply according to good manufacturing and industrial hygiene practices. Ensure proper ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wash thoroughly after handling. Do not drink, eat, or smoke while handling. Avoid contact with skin, eyes, and clothing. Minimize dust generation. Avoid breathing dust/fumes/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use individual protective equipment (waterproof boots, suitable protective clothing, safety glasses, etc.). Prevent any contact with hot surfaces.

Conditions for safe storage, including any incompatibilities: Store in cool, dry, and ventilated area away from heat sources and protected from sunlight in tightly closed original container. Keep air contact to a minimum. Store protected from heat, sparks and ignition sources and incompatible materials. Avoid contact with skin and eyes. Avoid inhalation of dust/mist/vapor. Do not store with incompatible materials like strong oxidizing agents, metals & acids.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits: Permissible 1 mg/m³ TWA (dust and mist, as Cu, except copper fume) (listed under Copper compounds, n.o.s.). 100 mg/m³ IDLH (dust and mist, as Cu) (listed under Copper compounds, n.o.s.).

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Respirators (NIOSH Approved): For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator.

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Other Control Measures: Maintain good housekeeping in work area. Dust deposits on floors and other surfaces may pick up moisture and cause the surfaces to become slippery and present safety hazards. Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling.

9. Physical and Chemical Properties

Appearance: Fine brown powder or crystals

Odor: It is odorless.

Odor threshold: Not available.

pH: around 3

Relative density: around 3.38.

Melting point/freezing point: Not available.

Boiling Point: 993C

Flash point: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Upper/lower flammability or explosive limits: Not available.

Vapor pressure: Not available.

Vapor density: Not available.

Evaporation rate: Not available.

Flammability (solid, gas): Not available.

Partition coefficient: n-octanol/water: Not available.

Solubility: It is soluble in water.

Viscosity: Not available.

Molecular formula: CuCl₂

Molecular weight: 134.45

10. Stability and Reactivity

Stability: Hygroscopic. Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: It emits toxic chlorine or hydrogen chloride fumes when heated to decomposition. It may form cupric oxide and hydrogen chloride and chlorine.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong oxidizing agents, metals & acids. Also incompatible with potassium, sodium, hydrazine, nitromethane, acetylene, sodium hypobromite.

Conditions to Avoid: Incompatibles and moisture.

11. Toxicological Information

Acute toxicity

Very Harmful if swallowed. Chronic exposure may cause damage to a variety of body organs.

Toxicity data

CAS# 7447-39-4

Oral, mouse: LD₅₀ = 233 mg/kg;

Oral, rat: LD₅₀ = 584 mg/kg;

Oral, rat: LD₅₀ = 140 mg/kg.

Carcinogenic Effects: Not known to be a carcinogen.

Mutagenic Effects: Mutagenic for bacteria and/or yeast. May cause damage to the following organs: kidneys, lungs, liver, skin.

Teratogenic Effects: Not available.

Developmental Toxicity: Not available.

12. Ecological Information

Environmental Toxicity: It is also toxic to fish. Harmful to aquatic life in extremely low concentrations. Copper Chloride Anhydrous is toxic to fish and marine organisms when applied to streams, rivers, ponds, or lakes.

Products of Biodegradation: Possibly hazardous short-term degradation products are not likely. However, long term degradation products may arise.

Persistence and Degradability: Unlikely to persist due to water solubility.

Mobility: Likely to be mobile due to water solubility.

Bioaccumulation/ Accumulation: No information available.

Results of PBT and vPvB assessment: No data available for assessment.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state, and local requirements.

14. Transport Information

US DOT Classification:

UN-Number: UN 2802

Shipping Name: Copper Chloride

CLASS 8, Packing group: III, Identification: 8(Corrosive)

Canada TDG Classification:

UN-Number: UN 2802

Shipping Name: Copper Chloride

CLASS 8, Packing group: III, Identification: 8(Corrosive)

IATA

UN-Number: UN 2802

Shipping Name: Copper Chloride

CLASS 8, Packing group: III, Identification: 8(Corrosive)

IMDG

UN number: 2802

Class: 8, Packing group: III, EMS-No: F-A, S-B

Proper shipping name: COPPER CHLORIDE

Marine pollutant: Marine pollutant.

RID/ADR

UN number: 2802

Class: 8, Packing group: III,

Proper shipping name: COPPER CHLORIDE

15. Regulatory Information

USA:

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA Codes: CAS # 7447-39-4: immediate, delayed.

SARA 313 Components: This material contains Cupric chloride (Copper compounds), (CAS# 7447-39-4) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

SARA 311/312 Hazards: Immediate Health Hazard, Chronic Health Hazard. See section 2.

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16 - Additional Information

European Labeling in Accordance with EC Directives:

H302 = Harmful if swallowed.

H315 = Causes skin irritation.

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H411 = Toxic to aquatic life with long lasting effects.

Classification according to EU Directives 67/548/EEC or 1999/45/EC:

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DISCLAIMER: *The information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed correct as of the date hereof. It is compiled from various sources and it is not necessarily all inclusive nor fully adequate in every circumstance. In addition, these suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements applicable. This MSDS sheet is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.*