

Copper (II) Chloride CAS No 10125-13-0	MATERIAL SAFETY DATA SHEET SDS/MSDS	
SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifiers		
Product name : Copper (II) C	horide	
CAS-No. : 10125-13-0		
1.2 Relevant identified uses of the substance or m	•	
-	cals, Industrial & for professional use only.	
	& Solvents Pvt. Ltd Industrial Estate, Opp Mittal Estate ad, Andheri (E), Mumbai - 400050	
Telephone:+91 22 4928 400Email:sales@pallavche		
1.4 Emergency telephone number Emergency Phone # : +91 22 4928 400	0 (9:00am - 6:00 pm) [Office hours]	
SECTION 2: Hazards identification		
2.1 Classification of the substance or mixture		
Classification according to Regulation (EC) No 1272/2008 Corrosive to metals (Category 1), H290 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Dermal (Category 4), H312 Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 2), H411		
For the full text of the H-Statements mentioned in this Section, see Section 16.		
Classification according to EU Directives 67/548/EEC or 1999/45/EC Xn, N Harmful, Dangerous for the R21/22, R38, R41, R50 environment		
For the full text of the R-phrases mentioned in th	s Section, see Section 16.	
2.2 Label elements		
Labelling according Regulation (EC) No 1272/2008 Pictogram		

	Signal word	Danger		
	Hazard statement(s) H290 H302 + H312 H315 H318 H400 H411	May be corrosive to m Harmful if swallowed o Causes skin irritation. Causes serious eye d Very toxic to aquatic lif Toxic to aquatic life w	or in contact with skin amage.	
	Precautionary statement(s) P273 P280 P305 + P351 + P338	Avoid release to the e Wear protective glove IF IN EYES: Rinse ca		nutes. Remove
	Supplemental Hazard Statements	none		
2.3	Other hazards - none			
SEC	CTION 3: Composition/inform	ation on ingredients		
3.1	Substances			
	Synonyms	: Cupric chloridedihydra	te	
	Formula Molecular Weight CAS-No. EC-No.	: Cl2Cu · 2H2O : 170,48 g/mol : 10125-13-0 : 231-210-2		
	Hazardous ingredients acc	cording to Regulation (EC) No 1272/2008	
	Component		Classification	Concentration
	Copper(II) chloride dihydra CAS-No. EC-No.	ate 10125-13-0 231-210-2	Met. Corr. 1; Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 2; H290, H302 + H312, H315, H318, H400,	<= 100 %

		H411	
Hazardous ingredien	its according to Directive	1999/45/EC	
Component		Classification	Concentration
Copper(II) chloride dihydrate			
CAS-No.	10125-13-0	Xn, N, R21/22 - R38 - R41 -	<= 100 %
EC-No.	231-210-2	R50	

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section

16 SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed no data available

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
 - **Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture Hydrogen chloride gas, Copper oxides
- **5.3** Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.
- 5.4 Further information no data available

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
- **6.2** Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
- **6.3** Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- **6.4** Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

- 7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. hygroscopic
- **7.3** Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: dark blue
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	рН	3,0 - 3,8
e)	Melting point/freezing point	Melting point/range: 100 °C - dec.
f)	Initial boiling point and boiling range	no data available
g)	Flash point	no data available
h)	Evapouration rate	no data available
i) j)	Flammability (solid, gas) Upper/lower flammability or explosive limits	no data available no data available
k)	Vapour pressure	no data available
I)	Vapour density	no data available
m)	Relative density	2,51 g/cm3
n) o)	Water solubility Partition coefficient: n- octanol/water	no data available no data available

	p)	Auto-ignition temperature	no data available
	q)	Decomposition temperature	no data available
	r)	Viscosity	no data available
	s)	Explosive properties	no data available
	t)	Oxidizing properties	no data available
9.2		er safety information lata available	
SECT	ION	10: Stability and reactivity	ty
10.1		ctivity	
10.2		lata available	
10.2		mical stability ble under recommended st	orage conditions.
10.3	-		
	no c	lata available	
10.4		ditions to avoid	
		t. Exposure to moisture.	
10.5		ompatible materials	
10.6	,	ardous decomposition p	oducts
		er decomposition products	
	In th	ne event of fire: see sectior	า 5
SEC1	ION	11: Toxicological inform	ation
11.1	Info	rmation on toxicological e	ffects
		i te toxicity i0 Oral - rat - 336 mg/kg	
	Inha	alation: no data available	
	LD5	i0 Dermal - rat - male - > 2	.000 mg/kg
	LD5	i0 Dermal - rat - female - 1	.224 mg/kg
	Skir	n corrosion/irritation a - rabbit ult: Irritating to skin.	

Serious eye damage/eye irritation Eyes - rabbit Result: Risk of serious damage to eyes.

Respiratory or skin sensitisation no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure no data available

Specific target organ toxicity - repeated exposure no data available

Aspiration hazard no data available

Additional Information RTECS: GL7030000

RIECS: GL/030000

Depending on the intensity and duration of exposure, effects may vary from mild irritation to severe destruction of tissue., Symptoms of systemic copper poisoning may include: capillary damage, headache, cold sweat, weak pulse, and kidney and liver damage, central nervous system excitation followed by depression, jaundice, convulsions, paralysis, and coma. Death may occur from shock or renal failure. Chronic copper poisoning is typified by hepatic cirrhosis, brain damage and demyelination, kidney defects, and copper deposition in the cornea as exemplified by humans with Wilson's disease. It has also been reported that copper poisoning has lead to hemolytic anemia and accelerates arteriosclerosis., Symptoms observed shortly before death were:, Shock., renal failure

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	LC50 - Cyprinus carpio (Carp) - 0,12 - 0,23 mg/l - 96,0 h	
	LC50 - Lepomis macrochirus - 0,9 mg/l - 96,0 h	
	NOEC - Ictalurus punctatus - 0,013 mg/l - 60 d	

12.2 Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

- **12.3 Bioaccumulative potential** no data available
- 12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

Very toxic to aquatic life.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. **Contaminated packaging**

Dispose of as unused product.

SECTION 14: Transport information				
14.1	UN number	r		
	ADR/RID: 2	2802	IMDG: 2802	IATA: 2802
14.2		shipping name COPPER CHLORIDE COPPER CHLORIDE Copper chloride		
14.3	Transport h	nazard class(es)		
	ADR/RID: 8	3	IMDG: 8	IATA: 8
14.4	Packaging	group		
	ADR/RID: I	II	IMDG: III	IATA: III
14.5	Environme	ntal hazards		
	ADR/RID: y	/es	IMDG Marine pollutant: yes	IATA: no
14.6	Special pre no data ava	cautions for user		

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H302 + H312	Harmful if swallowed or in contact with skin
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.

Full text of R-phrases referred to under sections 2 and 3

Ν	Dangerous for the environment
Xn	Harmful
R21/22	Harmful in contact with skin and if swallowed.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Pallav Chemicals & Solvents Pvt. Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.pallavchemicals.com for additional terms and conditions of sale.