

Yangzhou Sunchem Co.,Ltd.

Material Safety Data Sheet

Copper pyrithione (CPT)

1. Identification of the preparation and of the company

Product name Copper pyrithione (CPT)

CAS-No. : 14915-37-8

2. Hazards identification

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Flammable.

Toxic by inhalation. Harmful in contact with skin and if swallowed. Irritating to skin. May cause sensitisation by skin contact.

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

Additional information : IMO Antifouling System Convention compliant (AFS/CONF/26)

3. Composition/information on ingredients

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances

Directive 67/548/EEC.

Chemical name*	CAS number	EC number	% by weight
bis(1-hydroxy-1h-pyridine-2-thionato-o,s)copper	14915-37-8	238-984-0	1 - 2.5

4. First-aid measures

First-aid measures

General In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.

Inhalation Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Skin contact Remove contaminated clothing and shoes. Wash skin thoroughly with soap

and water or use recognised skin cleanser. Do NOT use solvents or thinners.

Eye contact Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.

Ingestion If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting.

5. Fire-fighting measures

Extinguishing media:Recommended: alcohol-resistant foam, CO₂, powders, water spray.

Extinguishing media not to be used:Do not use water jet.

Recommendations:Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required.

Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

6. Accidental release measures

Personal precautions:Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist.

Refer to protective measures listed in sections 7 and 8. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations(see section 13).

Spill:Preferably clean with a detergent. Avoid using solvents.

7. Handling and storage

Handling:Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

To dissipate static electricity during transfer, earth drum and connect to receiving container with bonding strap. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

Storage: Store in accordance with local regulations. Observe label precautions. Store in a dry,

cool and well-ventilated area. Keep away from heat and direct sunlight.

Keep away from sources of ignition. Keep away from: oxidising agents, strong alkalis, strong acids.

No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not empty into drains.

8. Exposure controls/personal protection

Engineering measures Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

Personal protective equipment

Respiratory system: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use respiratory mask with charcoal and dust filter when spraying this product. (as filter combination A2-P3). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoal filter.

Skin and body: Personnel should wear antistatic clothing made of natural fibres or of high temperature-resistant synthetic fibres.

Hands: Wear suitable gloves.

Not recommended, gloves (breakthrough time) < 1 hour: neoprene, butyl rubber, PVC

Recommended, gloves (breakthrough time) > 8 hours: fluor rubber, polyvinyl alcohol (PVA), 4H, Teflon, nitrile rubber

For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

Ingredient name

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Eyes: Use safety eyewear designed to protect against splash of liquids.

9. Physical and chemical properties

Physical state: Liquid.

Odour: Characteristic.

Colour: Various colours.

Flash point: Closed cup: 25°C (77°F)

Density: 1.7 g/cm₃

Explosion limits: 1.1 - 7%

Solubility: Insoluble in the following materials: cold water and hot water.

10. Stability and reactivity

Stable under recommended storage and handling conditions (see section 7).

Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

11. Toxicological information

There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 2 and 15 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Swallowing may cause nausea, diarrhoea, vomiting, gastro-intestinal irritation and chemical pneumonia.

Contains: rosin. May produce an allergic reaction.

12. Ecological information

There is no data available on the preparation itself.

Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See Sections 3 and 15 for details.

13. Disposal considerations

Do not allow to enter drains or watercourses. Material and/or container must be disposed of as hazardous waste.

European waste catalogue

(EWC) 08 01 11* waste paint and varnish containing organic solvents or other dangerous substances. If this product is mixed with other wastes, this code may no longer apply.

If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.

14. Transport information

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Proper shipping name: Copper based pesticide, liquid, toxic, flammable (bis(1-hydroxy-1h-pyridine-2-thionato-o,s)copper, xylene)

Marine pollutant substances: dicopper oxide, zinc oxide

UN Number: 3009

Class: 6.1

Sub-risk: 3

Packing group: III

Additional information

ADR / RID : Tunnel restriction code: (D/E)

Hazard identification number: 63

IMDG Emergency schedules (EmS): F-E, S-D

Marine pollutant: Yes.

15. Regulatory information

Risk phrases R10- Flammable.

R23- Toxic by inhalation.

R21/22- Harmful in contact with skin and if swallowed.

R38- Irritating to skin.

R43- May cause sensitisation by skin contact.

R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases S23- Do not breathe vapour / spray.

S36/37- Wear suitable protective clothing and gloves.

S38- In case of insufficient ventilation, wear suitable respiratory equipment.

S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Contains: dicopper oxide

xylene

bis(1-hydroxy-1h-pyridine-2-thionato-o,s)copper

Rosin

Additional information:IMO Antifouling System Convention compliant (AFS/CONF/26)

This product does not contain organotin compounds acting as biocides and complies with the International Convention on the Control of Harmful Anti-fouling Systems on Ships as adopted by IMO in October 2001 (IMO document AFS/CONF/26).

Industrial use:The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

16. Other information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall sunchem be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if sunchem has been advised of the possibility of such damages.