



Kumar Organic Products Limited

MATERIAL SAFETY DATA SHEET:

Copper Pyrithione

1. Product and Company Identification

Chemical Name	Copper Pyrithione
Trade Name	COPPER PYRITHIONE
Product Code	
Manufacturer's Name	Kumar Organic Products Ltd.
Address	Plot No:379, Canal Road, Vill – Luna Taluka ; Padra, Dist: Vadodara. Gujarat – 390 002 INDIA Tel. +91 0266 2244016 Fax : +91 0266 2244017. Email: kopl_baroda@kumarorganic.net

2. Composition / Information on Ingredients

Composition	100 %
Formula	$C_{10}H_8N_2O_2S_2Cu$
Molecular Weight	315.9
CAS No.	14915-37-8
Synonyms	Copper 2 pyridinethio-1-oxide
EINECS NO.	238-984-0

3. Hazards Identification

Human health effects:	
a. Effects of inhalation	Very toxic by inhalation
b. Effects of skin contact	Irritating to skin
c. Effect of eye contact	Risk of serious damage to eyes

4. First aid measures

General	Remove subject from exposed areas. Remove Contaminated clothing immediately.
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a. After inhalation	Symptoms may include tremors ataxia and convulsion. If breathing is difficult, administer Oxygen, keep the person warm and at rest. Low exposure to dust may cause mild and transient irritation to the respiratory tract.
b. For skin	Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice, Remove contaminated clothing immediately and launder before re-use. Acute exposure may cause transient redness and irritation.
c. For eyes	Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention. Contact with the eyes may cause severe irritation.
d. After ingestion (swallowing)	Immediately drink large quantities of water. Vomiting is expected within 5/10 minutes. Do not give anything by mouth if the person is unconscious or is having convulsions. If swallowed, gastroenteritis may occur with nausea, lethargy and diarrhea.

5. Fire fighting measures

Suitable extinguishing media	Carbon dioxide, Water spray
Combustion products	Hazardous gases: Sulphur, Carbon monoxide, Sulphur dioxide, Nitrogen oxides.
Special Information	This Material burns very rapidly once ignited, it produces large flames coupled with the evolution of dense/green Smoke. Water spray can be used to reduce burning and for cooling containers.
Fire fighting procedures	As with all fires, evacuate personnel to a safe area. equipment Fire fighters should use self contained breathing and protective clothing

6. Accidental release measures

Spill response	Evacuation procedures must be placed into effect, Evacuate all non – essential personnel. Hazardous
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	concentrations may be found in local spill area and immediately downwind. You are recommended to wear a positive pressure respirator with vapour/mist cartridges, splash proof goggles, hard hat and impervious gloves, boots and clothing.
Cleaning/ collecting	Create a dike or trench to contain materials. Remove/clean up material by use of vacuum system/pumps or sweep up. Do not place spill material back into original containers. Put into container and label properly for disposal as a hazardous waste.
Disposal	Disposal of waste in accordance with all applicable federal, state and local laws. Put into container and label properly for disposal as a hazardous waste.

7. Handling and storage

Handling	Avoid contact with eyes, skin and clothing. Upon contact with skin or eyes, wash off with water and seek medical advice. Remove contaminated clothing immediately and launder before re-use. Avoid all sources of ignition.
Storage	Store in cool dry well ventilated place. Do not expose to direct sunlight. Recommended storage temperatures above 54 °C. Incompatible materials: Strong oxidizers.

8. Exposure control and personal protection

Respiratory protection	Wear a full-face dust. mist respirator equipped.
General protective and hygienic measures	Have an emergency eye wash and shower available in immediate area.
Personal protection:	
Hand protection	Wear impervious (eg. nitrile rubber) gloves
Eye protection	Wear tightly sealed goggles
Body protection	Impervious protective clothing



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9. Physical and chemical properties

Appearance	Olive green powder
Odour	Odorless
pH value at 25°C	6 – 9 (5.0 % slurry in pH 7water)
Melting point, °C	280°C
Flash point	NA
Specific gravity at 25 °C	1.65-1.85gm/cm ³
Oil absorption	35-45 gm/100gm
Solubility in Miscibility with water	Solubility < 1.0ppm

10. Stability and reactivity

Stability	Stable under ordinary conditions of use and storage
Reactivity	Strong oxidizing agents

11. Toxicological data

Inhalation	Acute exposure may cause transient irritation to the respiratory tract. Symptoms may include tremors, ataxia and convulsions. Chronic exposure may cause respiratory irritation.
Skin contact	Dermal contact may cause irritation consisting of transient redness. This irritant effect would not be expected to result in permanent damage.
Eye contact	Severe irritation and / or burns can occur following eye contact. May cause impairment of vision and corneal damage.
Ingestion	If small quantities are ingested, vomiting will normally occur (usually within 5 to 10 minutes).
Health-related end-points:	
a. Carcinogenicity	Not known to be Carcinogenic.
b. Mutagenicity	Not known to be mutagenic.
Medical Conditions	



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Aggravated by exposure	Disease of the muscles and nerves Disease of the liver and kidneys
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12. Ecological data

Aquatic toxicity	Unspecified, no data available.
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13. Disposal considerations

Care must be taken to prevent environment contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, national and EU laws, directives and regulations regarding treatment, storage and disposal for hazardous and non hazardous wastes.

14. Transport information

The product is not classified as dangerous for transport in accordance with ADR, ADNR,

RID, IATA, IMDG.	Not Applicable
UN No.	Not Applicable
Class	Not Applicable
Primary risk	keep away from food stuffs

15. Regulatory information

Hazard determining components of labeling	Copper pyrithione
Risk phrases	
22	Harmful if swallowed
26	Harmful by inhalation
38	Irritating to skin
41	Risk of serious damage to eyes



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50	harmful to aquatic organisms
Safety phrases	
22	Do not breathe
26	dust In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
33	Take precautionary measures against static discharges
36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
45	In case of accident or if you fell unwell, seek medical advice immediately
61	Avoid release to the environment. Refer to special instructions/ safety data sheets.

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.

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