



Copper Pyrithione

Product Stewardship Summary

August 2008

Product Name	Copper Pyrithione
Synonyms	Copper 2- pyridinethiol-1- oxide
CAS Name	Bis(1-hydroxy-2(1H)-pyridinethionato-o,s)-T-4)copper
CAS Number	14915-37-8
EINECS Number	238-984-0

- *General Description.* Copper Pyrithione is an insoluble, olive green solid that is sold as a paste/dispersion product or powder for industrial applications. Copper Pyrithione is supported in Europe under the Biocidal Products Directive.
- *Manufacture.* During production, potential exposure to the concentrate by humans and the environment is tightly controlled and confined through strong industrial hygiene protocols and processes, engineering of the manufacturing equipment, and the use of personal protective equipment.
- *Applications.* Copper Pyrithione is primarily used as an antimicrobial in industrial products such as antifouling paints and in the protection and preservation of fiber, leather, and rubber.
- *Benefits.* Copper Pyrithione is a highly effective, broad spectrum biocide used to control bacteria, algae, and fungi.

- *General Precautions.* The concentrated form of Copper Pyrithione (100% active ingredients-, powder) is moderately toxic if swallowed; however, Copper Pyrithione is an emetic which means that accidental ingestion of the material should result in vomiting or purging the material out. Inhaling the concentrated dust or mist of Copper Pyrithione is considered to be highly toxic and may be fatal if inhaled. Dermal exposure to Copper Pyrithione is considered to be non-irritating. .

Copper Pyrithione is corrosive to eyes and can cause severe eye irritation and/or burns. Therefore, it must be washed out immediately to avoid serious injury.

Copper Pyrithione is neither a skin sensitizer, nor a skin irritant.

There are no known or expected effects from chronic exposure.

Copper Pyrithione is non-mutagenic , and it is not expected to cause adverse reproductive or embryonic effects. It is not considered carcinogenic.

Copper Pyrithione is considered highly/very toxic to aquatic organisms and aquatic plants; however, due to rapid degradation from sunlight, its presence in the environment is very short lived. Little to no toxicity was observed when terrestrial plants were exposed to large concentrations to Copper Pyrithione.

In laboratory studies, repeated exposures to concentrated Copper Pyrithione has been shown to cause toxicity, including hind-limb muscle atrophy that appears to be unique to certain species. Such effects have not been observed in primates even when tested at levels 30 times greater than what was observed in laboratory studies.

- *Likelihood of Exposure.* This product in concentrated form is not sold to the individual consumer. Rather, it is sold to manufacturers who formulate it into products that may then be purchased by industrial applicators. In such industrial settings, exposures to humans and the environment are tightly controlled.

- *Risk Management.* Those who handle the concentrated product or formulated products with diluted Copper Pyrithione should read and follow all label directions carefully.

For additional information, please visit our web site at www.archchemicals.com and click on “Contact Us”.

This summary is intended to give general information about the chemical or categories of chemicals addressed. It is not intended to be, and should not be relied upon as, a substitute for the detailed health and safety information contained in the Material Safety Data Sheet (or any other required hazard communication material) for this product, which should be consulted before use of the chemical or treatment for exposure. As with any product, it is very important to read and carefully follow all label directions and warnings. This summary does not amend, modify, or replace required regulatory and/or legal communication documents.