

1. Product and Company Identification

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Product Name Copper Hydroxide 53 Fungicide
Part Number RXSOL-94-9451-005

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Chemical Name	CAS	EC number	Weight	Formula
Copper dihydroxide	20427-59-2	243-815-9	2.000 mg/kg (OECD Test Guideline 402)	
Skin corrosion/irritation	Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)			
Serious eye damage/eye irritation	Eyes - Rabbit Result: Risk of serious damage to eyes. - 4 h (OECD Test Guideline 405) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)			
Respiratory or skin sensitization	Maximization Test - Guinea pig Result: negative (OECD Test Guideline 406)			
Toxic Effects on Human	May cause damage to the following organs: upper respiratory tract. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant, sensitizer), of ingestion, of inhalation (lung irritant, lung sensitizer).			
Carcinogenicity	No data available			
Germ cell mutagenicity	Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Gavage Method: Regulation			

(EC) No. 440/2008, Annex,
B.12 Result: negative Test
Type: unscheduled DNA
synthesis assay Species: Rat
Cell type: Liver cells
Application Route: Gavage
Method: OECD Test
Guideline 486 Result:
negative

Reproductive toxicity No data available

Specific target organ toxicity
- single exposure No data available

Special Remarks on other
Toxi Effects on Humans Acute Potential Health
Effects: Skin: Causes skin
irritation. May cause skin
sensitization, an allergic
reaction, which becomes
evident upon re-exposure to
this material. Eyes: Causes
eye irritation. Ingestion:
Causes gastrointestinal
(digestive) tract irritation
with nausea, vomiting, and
diarrhea. May be harmful if
swallowed. Inhalation:
Causes respiratory tract
irritation. May cause
chemical pneumonitis and
pulmonary edema,
inflammation, edema of
bronchi and larynx. Chronic
Potential Health Effects:
Repeated or prolonged skin
exposure may cause allergic
reactions in sensitive
individuals. Repeated or
prolonged exposure by
inhalation may affect
respiration and metabolism.

Endocrine
properties disrupting The substance/mixture does
not contain components
considered to have endocrine
disrupting properties
according to REACH Article
57(f) or Commission
Delegated regulation (EU)
2017/2100 or Commission
Regulation (EU) 2018/605
at levels of 0.1% or higher.
RTECS: GL7600000
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., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological information

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Bioaccumulative potential	No data available
Persistence and degradability	The methods for determining biodegradability are not applicable to inorganic substances.
Toxicity to fish	Static test LC50 - Oncorhynchus mykiss (rainbow trout) - 0,032 mg/l - 96 h Remarks: (ECOTOX Database) The value is given in analogy to the following substances: Copper(II) sulphate
Toxicity to daphnia and other aquatic invertebrates	Static test EC50 - Daphnia magna (Water flea) - 0,092 mg/l - 48 h (OECD Test Guideline 202) Remarks: (anhydrous substance) The value is given in analogy to the following substances: Copper(II) sulphate
Toxicity to algae	Flow-through test NOEC - algae - 0,002 mg/l - 7 Days Remarks: (in analogy to similar products) (ECHA) The value is given in analogy to the following substances: sodium hypochlorite solution
Toxicity to bacteria	Static test EC50 - activated sludge - 563 mg/l - 3 h (OECD Test Guideline 209) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: sodium hypochlorite solution
Mobility in soil	No Information available
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Endocrine disrupting properties	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Other adverse effects	Discharge into the environment must be avoided.

13. Disposal considerations

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Disposal methods	The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.
Contaminated packaging	Dispose of as unused product.
Waste treatment Method	See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

14. Transport information

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UN number	ADR/RID:3288 IMDG:3288 IATA: 3288
UN proper shipping name	ADR/RID:Toxic solid, inorganic, n.o.s. (Copper dihydroxide)

IMDG: Toxic solid, inorganic, n.o.s. (Copper dihydroxide)

IATA: Toxic solid, inorganic, n.o.s. (Copper dihydroxide)

ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

ADR/RID: II IMDG: II IATA: II

ADR/RID: yes IMDG: yes IATA: NO

No data available

Transport hazard class(es)

Packaging group

Environmental hazards

Further information

15. Regulatory information

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Inventory status

Components are on the following inventories: Polymaleic acid: - US TSCA, Canadian DSL, EU EINECS, Australian AICS, Korean, Philippine PICCS and Chinese Xi irritant R 36/38 Irritant to eyes & skin R 41 Risk of serious damage to eyes S24/25 Avoid contact with skin and eyes S26/28 In case of contact eyes & skin, rinse with plenty water and seek medical advice Section 312/313: Not listed. Not listed under California proposition 65.

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

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

National legislation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : ACUTE TOXIC : ENVIRONMENTAL HAZARDS

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16. Other information

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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 we 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 Rx Marine International has been advised of the possibility of such damages.

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