

Copper Dust Twelve to Fifteen Percentage

Part No. RXSOL-23-2005-050 — Generated 15 Oct 2026

1. Product and Company Identification

Product Name	Copper Dust Twelve to Fifteen Percentage
Part Number	RXSOL-23-2005-050

Company Details:....

RX MARINE INTERNATIONAL
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2. Composition / information on ingredients

Substances

Formula	Cu
Molecular weight	63,55 g/mol
CAS-No.	7440-50-8
EC-No	231-159-6
Index-No.	029-024-00-X

Component	Classification	Concentration
Copper		
CAS-No.	7440-50-8	
EC-No	231-159-6	
Index-No.	029-024-00-X	
.	Flam. Sol. 1; Aquatic Acute 1; Aquatic Chronic 1; H228, H400, H410 M-Factor - Aquatic Acute: 10 - Aquatic Chronic: 10	= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

3. Hazards Identification

Classification of the substance or mixture

Flammable solids, (Category 1)	H228: Flammable solid.
Short-term (acute) aquatic hazard, (Category 1)	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, (Category 1)	H410: Very toxic to aquatic life with long lasting effects.

Label elements

Hazard Statements

H302	Harmful if swallowed.
H331	Toxic if inhaled.
H440	Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P210P240	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P273	Avoid release to the environment
P301 + P312	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell
P304 + P340 + P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.

Supplemental Hazard Statements

none

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.

Ecological information:

Other hazards

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.

Toxicological information:

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.

4. First Aid Measures

Description of first aid measures

General advice	First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
If inhaled	After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.
In case of skin contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
In case of eye contact	After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
If swallowed	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.
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
Indication of any immediate medical attention and special treatment needed	No data available

5. Fire-fighting Measures

Extinguishing media

Suitable extinguishing media	Special powder against metal fire Sand Cement
Unsuitable extinguishing media	Water Foam Copper oxides Combustible.
Special hazards arising from the substance or mixture	Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.
Advice for firefighters	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
Further information	Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
Environmental precautions	Do not let product enter drains. Risk of explosion.
Methods and materials for containment and cleaning up	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.
Reference to other sections	For disposal see section 13.

7. Handling and Storage

Precautions for safe handling

Advice on safe handling	Work under hood. Do not inhale substance/mixture.
Advice on protection against fire and explosion	Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.
Hygiene measures	Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance. For precautions see section 2.2.
Conditions for safe storage, including any incompatibilities	
Storage conditions	Tightly closed. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.
Storage class	Storage class (TRGS 510): 4.1B: Flammable solid hazardous materials
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls and personal protection

Control parameters

Ingredients with workplace control parameters

Exposure controls

Personal protective equipment

Eye/face protection

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

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0,11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0,11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Body Protection

protective clothing

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Respiratory protection

Recommended Filter type: Filter type P2

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains.

9. Physical and chemical properties

Physical state

Powder

Colour

Light red

Odor

Odorless

Melting point/freezing point

Melting point/range: 32 - 35 °C
Melting point/range: 32 - 34 °C - lit.

Initial boiling point and boiling range

202 °C - lit.

Flammability (solid, gas)

No data available

Upper/lower flammability or explosive limits

Lower explosion limit: 1,1 %(V)

Flash point

86 °C - closed cup - DIN 51758

Autoignition temperature

559 °C at 1.013 hPa

Decomposition temperature

No data available

pH

No data available

Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
Water solubility	ca.21,5 g/l at 25 °C - completely soluble
Partition coefficient: n-octanol/water	log Pow: 1,94 - Bioaccumulation is not expected.
Vapor pressure	0,147 hPa at 25 °C
Density	1,034 g/mL at 25 °C - lit.
Relative density	1,03 at 20 °C
Relative vapor density	No data available
Particle characteristics	No data available
Explosive properties	No data available
Oxidizing properties	None
Other safety information	Dissociation constant 10,26 at 25 °C

10. Stability and reactivity

Reactivity	No dangerous reaction known under conditions of normal use. Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical. The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Chemical stability	The product is chemically stable under standard ambient conditions (room temperature) .. Exothermic reaction with: Ethylene oxide Fluorine hydrogen sulphide halogen-halogen compounds alkali oxides nitrides Salts of hydrazine Sulfuric acid Risk of ignition or formation of inflammable gases or vapours with: Oxidizing agents
Possibility of hazardous reactions	Chlorine Risk of explosion with: Acetylene azides ammonium compounds iodates bromopropine perchlorates bromates picrates chlorates Peroxides
Conditions to avoid	Strong heating.
Incompatible materials	No data available
Hazardous decomposition products	In the event of fire: see section 5

11. Toxicological information

Information on toxicological effects

Acute toxicity	LD50 Oral - Rat - female - > 5.000 mg/kg
	LC50 Inhalation - Rat - male and female - 4,4 h - > 2,06 mg/l
Skin corrosion/irritation	LD50 Dermal - Rat - male and female - > 5.000 mg/kg
	Skin - Rabbit
	Result: Irritating to skin. - 4 h (OECD Test Guideline 404)
Serious eye damage/eye irritation	Remarks: No data available
Respiratory or skin sensitization	Buehler Test - Guinea pig Result: Does not cause skin sensitization
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
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

12. Ecological information

Toxicity

Toxicity to fish	static test LC50 - Leuciscus idus (Golden orfe) - > 146 mg/l - 48 h (DIN 38412)
Toxicity to daphnia and other aquatic invertebrates	static test - Daphnia magna (Water flea) - > 146 mg/l - 24 h (OECD Test Guideline 202)

Persistence and degradability	No data available
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Bioaccumulative potential	No data available
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Mobility in soil	No data available
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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.
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Endocrine disrupting properties

Product

Assessment	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.
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Other adverse effects	No data available .
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13. Disposal considerations

Waste treatment**Method****Product**

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

UN number	ADR/RID:	IMDG:	IATA:
UN proper shipping name	ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods		
Transport hazard class(es)	ADR/RID:	IMDG:	IATA:
Packaging group	ADR/RID:	IMDG:	IATA:
Environmental hazards	ADR/RID: no	IMDG Marine pollutant: no	IATA: no
Special precautions for user	No data available		
Further information	Not classified as dangerous in the meaning of transport regulations.		

15. Regulatory information

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.

Other regulations

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

**Other
Information**

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