

Material Safety Data Sheet

Copper Oxide (RXSOL-19-1335-028)



1. Product and Company Identification

Product Name Copper Oxide
Part Number RXSOL-19-1335-028

Company Details:
RX MARINE INTERNATIONAL
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2. Composition / information on ingredients

Name of Substance	Cas Number	EINECS No	Wt. %
Copper Oxide	1317-38-0	215-269-1	= 100 %

3. Hazards Identification

Classification of the substance or mixture

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.

Labelling according Regulation (EC) No 1272/2008

Signal Word	Warning
Hazard Statements	H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	P273 Avoid release to the environment. P391 Collect spillage. P501 Dispose of contents/ container to an approved waste disposal plant.

4. First Aid Measures

Eye Contact	After eye contact: rinse out with plenty of water. Remove contact lenses.
Skin Contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

Inhalation:	After inhalation: fresh air.
Ingestion:	After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

5. Fire-fighting Measures

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given.
Special exposure hazards arising from the substance itself, combustion products, resulting gases:	Copper oxides Not combustible. Ambient fire may liberate hazardous vapours.
Advice for firefighters	In the event of fire, wear self-contained breathing apparatus.
Additional 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 inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.
Environmental Precaution	Do not let product enter drain.
Methods and materials for containment and cleaning up	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

7. Handling and Storage

Storage	Storage conditions : Tightly closed. Dry. Storage class : Storage class (TRGS 510): 13: Non Combustible Solids
Advice on general occupational hygiene	Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas.

8. Exposure controls and personal protection

Eye/face protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses
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Skin protection	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) 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
	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. Recommended Filter type: Filter type P1
Respiratory protection	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. 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

Form	Powder
Colour	Black
Odour	Odorless
Boiling point and boiling range	No Data Available
Flash Point	Not Applicable
Melting Point	1.336 °C
pH	No Data Availavble
Evaporation rate	No data available
Flammability (solid, gas)	The product is not flammable.
Upper explosion limit	No data available
Lower explosion limit	No data available
Explosive properties	No data available
Vapor pressure	No data available
Relative vapor density	No data available
Density	6,32 g/cm3
Water solubility	0,0001 g/l at 20 °C - Regulation (EC) No. 440/2008, Annex, A.6- insoluble
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	Not applicable for inorganic substances
Autoignition temperature	No data available
Thermal decomposition	No data available
Viscosity, kinematic	No data available
Explosive properties	Not classified as explosive.
Oxidizing properties	No data available
Molecular weight	No data available
VOC	No data available

10. Stability and reactivity

Reactivity	No Data Available
Stability	The product is chemically stable under standard ambient conditions (room temperature) .
Possibility of hazardous reactions	Risk of explosion with : Aluminum Violent reactions possible with : Boron hydrazine and derivatives hydroxylamine sodium magnesium Risk of ignition or formation of inflammable gases or vapours with: hydrogen sulphide Fluorine silane hydrides Potassium Acid anhydrides Hydrogen
Incompatible materials	No Data Available
Hazardous Decomposition	No Data Available
Condition to Avoid	No Data Availabe

11. Toxicological information

Route of Exposure	Inhalation, Eye contact, Skin contact LD50 Oral - Rat - male - > 2.500 mg/kg (OECD Test Guideline 423) Symptoms: Possible damages:, Vomiting, Pain, Diarrhea Symptoms: Irritation symptoms in the respiratory tract.
Acute toxicity	LD50 Dermal - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 402) LD50 Oral - Rat - male - > 2.500 mg/kg (OECD Test Guideline 423) Symptoms: Possible damages:, Vomiting, Pain, Diarrhea Symptoms: Irritation symptoms in the respiratory tract.
Skin corrosion/irritation	LD50 Dermal - Rat - male and female - > 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: No eye irritation - 72 h (OECD Test Guideline 405)
Respiratory or skin sensitization	Maximization Test - Guinea pig Result: negative (OECD Test Guideline 406)
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 Remarks: The value is given in analogy to the following substances: Copper(II) sulphate Test Type: unscheduled DNA synthesis assay Species: Rat Cell type: Liver cells Application Route: Oral Method: OECD Test Guideline 486 Result: negative Remarks: The value is given in analogy to the following substances: Copper(II) sulphate Test Type: Micronucleus test Species: Mouse Cell type: Red blood cells (erythrocytes) Application Route: Oral Method: Directive 67/548/EEC, Annex V, B.12. Result: negative Remarks: The value is given in analogy to the following substances: Copper(II) sulphate

12. Ecological information

Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.
Toxicity to daphnia and others	No data available
Toxicity to algae	No data available
Biodegradability	No data available
Persistence and degradability	No data available

13. Disposal considerations

Waste Disposal	No Data Available
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14. Transport information

ADR/RID:

UN number	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper(II) oxide)
Transport hazard class(es)	9
Packaging group	III
Environmental hazards	Yes

IMDG:

UN number	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper(II) oxide)
Transport hazard class(es)	9
Packaging group	III
Environmental hazards	Yes

IATA:

UN number	UN3077
UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. (copper(II) oxide)
Transport hazard class(es)	9
Packaging group	III
Environmental hazards	Yes

Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids. Packages smaller than or equal to 5 kg / L , not dangerous goods of Class 9

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.
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. E1 ENVIRONMENTAL HAZARDS
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

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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