

1. Product and Company Identification

www.rxmarine.com

Product Name Copper acetate
Part Number RXSOL-68-6860-025

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

Phone +91 22 20871200 - 1400
Fax +91 22 27612100 ::AOH :0091 9821214367
Email mail@rxmarine.com
Website www.rxmarine.com

2. Composition / Information on ingredients

www.rxmarine.com

Chemical Name	Cas No	EC No	Weight	Formula
Copper(II) acetate	142-71-2	205-553-3	181,63 g/mol	C ₄ H ₆ CuO ₄

3. Hazards Identification

www.rxmarine.com

Signal Word	Danger
Hazard Statements	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	P260 Do not breathe dust. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Classification of the substance or mixture	No data available
Supplemental Hazard Statements	No data available
Other hazards	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. 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

www.rxmarine.com

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.
Eye Contact	Rinse out with plenty of water. Remove contact lenses

Swallowed	Make victim drink water (two glasses at most). Consult doctor if feeling unwell.
Skin Contact	In case of skin contact Take off immediately all contaminated clothing. Rinse skin with water/ shower.
Inhalation	No data available
Ingestion	No data available
Most important symptoms and effects, both acute and delay	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

www.rxmarine.com

Flammability	No data available
Suitable extinguishing media	Water Foam Carbon dioxide (CO2) Dry powder
Unsuitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given
Special hazards arising from the substance or mixture	Carbon oxides Copper oxides Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.
Further information	Prevent fire extinguishing water from contaminating surface water or the ground water system
Hazardous combustion products	No data available
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
Protective Equipment	No data available
Specific Hazards Arising from the chemical	No data available

6. Accidental Release Measures

www.rxmarine.com

Personal precautions, protective equipment and emergency procedures	Advice for non-emergency personnel: Do not breathe vapors, aerosols. 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.
Spillage	No data available
Personal Protection	No data available
Environmental Precaution	No special precautionary measures necessary
Methods and materials for containment and cleaning	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
Reference to other sections	For disposal see section 13

7. Handling and Storage

www.rxmarine.com

Advice on protection against fire and explosion	No data available
Incompatible materials	No data available
Hygiene measures	No data available
Advice on safe handling	For precautions see section 2.2
Conditions for safe storage, including any incompatibilities	No data available
Storage conditions	Tightly closed. Dry. Store under inert gas. Moisture sensitive.
Storage class	Storage class (TRGS 510) 8B Non-combustible, corrosive 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

www.rxmarine.com

Exposure controls	Personal protective equipment
Engineering Control	No data available
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
Body Protection	Protective clothing
Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M) Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario
Respiratory protection	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 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.
Other Protection Measure	No data available

9. Physical and chemical properties

www.rxmarine.com

Physical state	Crystalline powder
Colour	Dark green, transparent
Odour	Odorless
Odor Threshold	No data available
pH	5,2 - 5,5 at 20 g/l at 20 °C
Melting Point	273 °C - Regulation (EC) No. 440/2008, Annex, A.1 - Decomposes before melting.
Boiling Point	No data available
Flash Point	No data available
Evaporation Rate	No data available
Flammability (solid, gas)	Not flammable
Explosive limits	No data available
Upper/lower flammability or explosive limits	No data available
Autoignition temperature	239 °C - Relative self-ignition temperature for solids
Decomposition temperature	No data available
Vapour pressure	No data available
Viscosity	No data available

Density	1,88 g/cm ³ at 20 °C
Relative Density	No data available
Specific Gravity	No data available
Partition coefficient	No data available
Explosive properties	No data available
Solubility	76,3 g/l at 20 °C - Regulation (EC) No. 440/2008, Annex, A.6-completely soluble
Ignition temperature	No data available
Particle characteristics	No data available

10. Stability and reactivity

www.rxmarine.com

Reactivity	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)
Possibility of hazardous reactions	Violent reactions possible with Strong oxidizing agents
Conditions to avoid	Avoid moisture. no information available
Incompatible materials	Strong oxidizing agents, Strong acids
Hazardous product decomposition	In the event of fire see section 5

11. Toxicological information

www.rxmarine.com

Acute toxicity	LD50 Oral - Rat - female - > 300 - 2.000 mg/kg (OECD Test Guideline 420) Remarks (in analogy to similar compounds) The value is given in analogy to the following substances Copper di(acetate) Inhalation Irritating to respiratory system. LD50 Dermal - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 402) (in analogy to similar products) The value is given in analogy to the following substances Copper di(acetate)
Skin corrosion/irritation	Skin - In vitro study Result Causes burns. - 4 h (OECD Test Guideline 431) (in analogy to similar products) The value is given in analogy to the following substances: Copper di(acetate)
Serious eye damage/irritation	Eyes - Rabbit Result Causes serious eye damage. - 21 d (OECD Test Guideline 405) (in analogy to similar products) The value is given in analogy to the following substances: Copper di(acetate)
Respiratory or skin sensitization	Maximization Test - Guinea pig Aldrich- 326755 Page 8 of 11 The life science business of Merck operates as MilliporeSigma in the US and Canada Does not cause skin sensitization. (OECD Test Guideline 406) (in analogy to similar products) The value is given in analogy to the following substances: Copper di(acetate)
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 unscheduled DNA synthesis assay Species Rat Cell type Liver cells Application Route Oral Method OECD Test Guideline 486 negative
Reproductive toxicity	No data available
Specific target organ toxicity- single exposure	No data available
Additional 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. Repeated dose toxicity - Rat - male and female - Inhalation - 28 Days (in analogy to similar products) The value is given in analogy to the following substances: copper(I) oxide RTECS: AG3480000 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., Gastrointestinal disturbance, Blood disorders

12. Ecological information

www.rxmarine.com

Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity to fish	low-through test LC50 - Pimephales promelas (fathead minnow) - 0,39 mg/l - 96 h (US-EPA) Remarks (in analogy to similar products) The value is given in analogy to the following substances: Copper(II) sulfate hydrate
Toxicity to bacteria	No data available
Toxicity to algae	No data available
Products Biodegradation	No data available
Mobility in soil	No data available
Results of PBT av PvB 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	No data available

13. Disposal considerations

www.rxmarine.com

Product	No data available
Contaminated packaging	No data available
Waste treatment Method	No data available

14. Transport information

www.rxmarine.com

UN number	ADR/RID:1759 IMDG:1759 IATA: 1759
UN proper shipping name	ADR/RID: CORROSIVE SOLID, N.O.S. (copper(II) acetate) IMDG: CORROSIVE SOLID, N.O.S. (copper(II) acetate) IATA: Corrosive solid, n.o.s. (copper(II) acetate)
Transport hazard classess	ADR/RID:8 IMDG:8 IATA:8
Packaging group	ADR/RID:II IMDG:II IATA:II
Environmental hazards	ADR/RID:Yes IMDG Marine pollutant:Yes IATA: No
Special precautions for user	No data available
Further information	No data available

15. Regulatory information

www.rxmarine.com

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

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

www.rxmarine.com

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.

DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

No data available

No data available

No data available

No data available

No data available

No data available

No data available

No data available

No data available

No data available

No data available