Material Safety Data Sheet

COPPER FOIL 0.1MM APPROX 99 (RXSOL-60-6604-358)

1. Product and Company Identifaction

Product Name	RXSOL-60-6604-358
Product Type	COPPER FOIL 99% (0.1mm Approx)
Revised date	

Company Details:

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

Stock Point : Mumbai, Kandla, Chennai, Visakhapatnam, Kolkata, Fujairah, Muscat Barka

Phone	+91 22 27815541 / 42
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2. Composition / informationon ingredients

2.1. Substances /Preparation : COPPER FOIL 99%
CAS No. : 7440- 50- 8

Substance name	Contents	CAS No
Copper	>95	7440-50-8

Substance.
Contains no other components or impurities which will influence the classification of the product.

3. Hazards Identification

3.1. Classification of the substance or mixture
CLP Classification - Regulation (EC) No 1272/2008
Health hazards
Based on available data, the classification criteria are not met
Environmental hazards
Based on available data, the classification criteria are not met
Physical hazards
Based on available data, the classification criteria are not met
3.2. Label elements
Hazard Statements
Precautionary Statements
3.3. Other hazards
No information available

4. First Aid Measures

4.1. Description of first aid measures
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Ingestion Do not induce vomiting. Obtain medical attention.
Inhalation Move to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.
Self-Protection of the First Aider No special precautions required.
4.2. Most important symptoms and effects, both acute and delayed
No information available.
4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. Fire-fighting Measures

5.1. Extinguishing media
Suitable Extinguishing Media
Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.
Extinguishing media which must not be used for safety reasons
No information available.
5.2. Special hazards arising from the substance or mixture
Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.
Hazardous Combustion Products
Copper oxides.
5.3. Advice for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.
6.2. Environmental precautions
Do not flush into surface water or sanitary sewer system. Should not be released into the environment. Do not allow material to contaminate ground water system.
6.3. Methods and material for containment and cleaning up
Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.
6.4. Reference to other sections
Refer to protective measures listed in Sections 8 and 13.

7. Handling and Storage

7.1. Precautions for safe handling
Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation.
• Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.
7.2. Conditions for safe storage, including any incompatibilities
Keep containers tightly closed in a dry, cool and well-ventilated place. Store under an inert atmosphere.
7.3. Specific end use(s)
Use in laboratories

8. Exposure controls and personal protection

8.1. Control parameters
• Exposure limits
List source(s): UK - EH40/2005 Containing the workplace exposure limits (WELs) for use with the Control of Substances
Hazardous to Health Regulations (COSHH) 2002 (as amended).
IRE - 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001.
Published by the Health and Safety Authority.
• Component The United Kingdom European Union Ireland
Copper STEL: 0.6 mg/m3 15 min
STEL: 2 mg/m3 15 min
TWA: 1 mg/m3 8 hr
TWA: 0.2 mg/m3 8 hr
TWA: 0.2 mg/m3 8 hr. Cu
fume
TWA: 1 mg/m3 8 hr.Cu
dusts and mists
STEL: 0.6 mg/m3 15 min

STEL: 2 mg/m3 15 min
• Biological limit values
This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies
• Monitoring methods
BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust MDHS 99 Metals in air by ICP-AES
MDHS 91 Metals and metalloids in workplace air by X-ray fluorescence spectrometry
Derived No Effect Level (DNEL) No information available
Predicted No Effect Concentration
(PNEC)
No information available.
8.2. Exposure controls
Engineering Measures
None under normal use conditions.
Personal protective equipment
Eye Protection Safety glasses with side-shields (European standard - EN 166)
Hand Protection Protective gloves
Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure Inspect gloves before use. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)
Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Remove gloves with care avoiding skin contamination.
Respiratory Protection No protective equipment is needed under normal use conditions.
Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced
Recommended Filter type: Particle filter
Small scale/Laboratory use Maintain adequate ventilation
Environmental exposure controls Prevent product from entering drains. Do not allow material to contaminate ground water
system. Local authorities should be advised if significant spillages cannot be contained

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties
9.2. Other information
Glove material Breakthrough time Glove thickness EU standard Glove comments
Odor Threshold No data available
pH No information available
Melting Point/Range 1083 °C / 1981.4 °F
Softening Point No data available
Boiling Point/Range 2595 °C / 4703 °F@ 760
mmHg Flash Point No information available
Evaporation Rate Not applicable Solid
Flammability (solid,gas) No information available
Explosion Limits No data available
Vapor Pressure No data available
Vapor Density Not applicable Solid
Specific Gravity / Density No data available
Bulk Density No data available
Water Solubility Insoluble
Solubility in other solvents No information available
Partition Coefficient (n-octanol/water)
Autoignition Temperature No data available
Decomposition Temperature No data available
Viscosity Not applicable Solid
Explosive Properties No information available
Oxidizing Properties No information available
Molecular Formula Cu
Molecular Weight 63.54

10. Stability and reactivity

10.1. Reactivity
None known, based on information available
10.2. Chemical stability

Air sensitive.
10.3. Possibility of hazardous reactions
Hazardous Polymerization Hazardous polymerization does not occur.
Hazardous Reactions None under normal processing.
10.4. Conditions to avoid
Incompatible products. Excess heat. Avoid dust formation. Exposure to air.
10.5. Incompatible materials
Strong oxidizing agents.
10.6. Hazardous decomposition products
Copper oxides.

11. Toxicological information

11.1. Information on toxicological effects
Product Information No acute toxicity information is available for this product
acute toxicity;
• Inhalation No data available
• skin corrosion/irritation; No data available
• serious eye damage/irritation; No data available
respiratory or skin sensitization;
• Respiratory No data available
• Skin No data available
• germ cell mutagenicity; No data available
• carcinogenicity; No data available
Possible cancer hazard. May cause cancer based on animal data The table below indicates whether each agency has listed any ingredient as a carcinogen
• reproductive toxicity; No data available
• STOT-single exposure; No data available
• STOT-repeated exposure; No data available
Target Organs None known.
• aspiration hazard; Not applicable
• Other Adverse Effects The toxicological properties have not been fully investigated.
• Symptoms / effects,both acute and delayed No information available

12. Ecological information

12.1. Toxicity
• Ecotoxicity effects Contains a substance which is:. Very toxic to aquatic organisms.
The product contains following substances which are hazardous for the environment.
May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.
12.2. Persistence and degradability The product includes heavy metals. Prevent release into the environment. Special pretreatment required
• Persistence Insoluble in water, May persist.
• Degradability Not relevant for inorganic substances.
• Degradation in sewage treatment plant
Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.
12.3. Bioaccumulative potential May have some potential to bioaccumulate; Product has a high potential to bioconcentrate
12.4. Mobility in soil Spillage unlikely to penetrate soil Is not likely mobile in the environment due its low water solubility.
12.5. Results of PBT and vPvB assessment
No data available for assessment.
12.6. Other adverse effects
• Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors
• Persistent Organic Pollutant This product does not contain any known or suspected substance
• Ozone Depletion Potential This product does not contain any known or suspected substance

13. Disposal considerations

13.1. Waste treatment methods
Waste from Residues / Unused
• Products
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

• Contaminated Packaging Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.
• European Waste Catalogue (EWC) According to the European Waste Catalogue, Waste Codes are not product specific, but application specific
• Other Information Do not dispose of waste into sewer.

14. Transport information

14.1. Land transport (ADR-RID)
General information : Not regulated.
14.2. Sea transport (IMDG) [English only]
General information : Not regulated.
14.3. Air transport (ICAO-IATA) [English only]
General information : Not regulated.

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Safety, health and environmental : Ensure all national/local regulations are observed.
regulations/legislation specific for the substance or mixture
REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.
REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.
15.2. Chemical Safety Assessment
Chemical Safety Assessment : It has not been carried out.

16. Other information

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.
vPvB: very persistent and very bioaccumulative
Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
Further information : None.
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