Material Safety Data Sheet

Copper Concentrate Cleaner (RXSOL-22-1011-220)

1. Product and Company Identifaction

Product Name	RXSOL-22-1011-220
Product Type	Copper Concentrate Cleaner

Company Details:

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

Stock Point : Mumbai, Kandla, Chennai, Ennore, Visakhapatnam, Gangavaram, Kolkata, Haldia, Fujairah UAE, Muscat Oman

Phone	+91 22 27815540 / 41 / 42
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / informationon ingredients

No	Ingredients name	CAS-NO	Cons.(weight%)	Classification
1	Phosphoric Acid with Ethoxylated Fatty alcohol	------	15-20	Xi;R36
2	Butylene Glycol	112-34-5	10 - 20	
3	Proprietory Formulatory Detergent Product	-------	10	
4	Citric Acid mixture	------	2-4	C;R34
5	Non Hazardous Blend	-----	> 40	

Legend T+=Very toxic, T=Toxic, C=Corrosive, Xn=Harmful, Xi=Irritant, IK=No classification required, E=Explosive, O=Oxidising, F+=Extremely flammable, F=Very flammable, Fo=Flammable, N=Dang. to the environment, Mut=Genetoxic, Sens=Sensitizing, Carc=Carcinogen, Repr=Causes birth defects

3. Hazards Identification

Acidic liquid. R34 Causes burns. R36 - Irritating to eyes.

Odour	Odourless
Appearance	Liquid, pale yellow, soluble in water
Contact with eyes	Can cause damage to the eyes
Contact with skin	Causes burns (R34)
Inhalation	Vapours or aerosols may cause irritation of eyes, nose and respiratory tract, Can cause damage to the lungs
Ingestion	The ingestion of significant quantities may cause damage to digestive syste

4. First Aid Measures

Inhalation:	Remove victim from immediate source of exposure and assure that the victim is breathing. Administer oxygen if available. Seek immediate medical attention.
Skin:	Wash skin with plenty of soap and water for at least 15 minutes. Seek medical attention. Remove contaminated clothing and shoes and clean before reuse or discard if they cannot be thoroughly cleaned.
Eyes:	Hold eyelids open and flush with a steady, gentle stream of water for at least 15minutes. Seek immediate medical attention preferably with an ophthalmologist.
Ingestion:	Contact a physician or emergency medical facility immediately. Never give anything to an unconscious person.

5. Fire-fighting Measures

Proper Fire Fighting Equipment: Water spray, fog or mist, alcohol-resistant foam, dry chemical, carbon dioxide (CO2).

Improper Fire Fighting Equipment: Fire fighters should wear self contained breathing apparatus and full protective clothing. Keep unnecessary people away, isolate hazard area and deny entry. Dike area to prevent run off and contamination of water sources. Persons who have been exposed to contaminated smoke should be immediately examine by a physician and checked for symptoms of poisoning.

Fire and Explosion Hazards Products: Oxides of Phosphorous.

Personal Protection When Fire Fighting: Wear self-contained breathing apparatus or supplied-air respirator in confined spaces.

Other Information: Containers close to fire should be removed immediately or cooled with water.

6. Accidental Release Measures

Safety Measurements to Protect Persons: Wear appropriate protective gear for the situation. See personal protection information in section 8.

Safety Measurements to Protect Environment: Run off from fire control or dilution water may cause pollution. Large spills should be handled according to a predetermined plan.

Proper Methods For Damage Limitation And Clean up: Carefully neutralize spill with soda ash. Clean up residual material by washing up area with water.

7. Handling and Storage

Handling Advice: Do not get on skin or in eyes. Avoid breathing vapors and mists. Do not ingest. This product reacts violently wit bases liberating heat and causing sputtering.

Storage: Store in an area that is cool, dry, well ventilated.

8. Exposure controls and personal protection

EXPOSURE LIMITS
Name of Substance: Phosphoric Acid
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OSHA (PEL): 8 hour time-weighted average 1 mg/m3
ACGIH (TLV): short term exposure limit 3 mg/m3
ACGIH (TLV): time-weighted average 1 mg/m3

Eye protection: Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash must be readily accessible to the work area. Face contact should be prevented through use of a face shield.

Skin protection: Skin contact should be prevented through use of suitable protective clothing, gloves and footwear, selected with regard for use conditions and exposures potential. Consideration must be given both to durability as well as permeation resistance..

Respiratory protection: When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and industrial recommendations. Other Information: Do not smoke in work area.

9. Physical and chemical properties

Form:	Liquid
Air Active:	Not applicable
Colour:	Colorless
Rel. vapour density:	Not applicable
Odor :	Odorless
Ignition temp:	>450°C
Solubility in Water:	Completely
Moleculer weight:	Not applicable
Expl.limit:	Not established
MeltingPoint/range:	Not established
Density:	1.18 – 1.28 gram / cm3
Vapour pressure:	2.16-5.65 mmHg at 760°C
Boiling Point :	135°C – 158°C at 760mmHg
Saturaction conc :	Not applicable
Decomposition temp.:	Not applicable
Viscosity:	Not established
Flash Point:	Not applicable
pH:	1.2 – 2.0

10. Stability and reactivity

Stability: Stable under normal use conditions.

Materials to be avoided: Fluorine, Strong Oxidizing Agents, Strong Reducing Agents, Bases, Metals, Sulfur Trioxide, Phosphorus Pentoxide.

Conditions to be avoided: None known.

Other Information: Hazardous decompositions products Oxide of phosphorus.

11. Toxicological information

TOXICOLOGICAL DATA

Name of Substance: Phosphoric Acid

LD50 (oral, rat): 1530 mg/kg (anhydrous substance)
LC50 (inhalation, rat) : >0.85 mg/l /1 h (anhydrous substance)
LD50 (dermal, rabbit): 2740 mg/kg (anhydrous substance)

Inhalation: Mists can cause lung irritation, shortness of breath, fluid in lungs.

Skin contact: Causes irritation and skin burns.

Eye contact: Corrosive, causes tissue destruction, permanent damage to the cornea, blindness.

Ingestion: Can cause nausea, vomiting, diarrhoea, corrosion, burns to mouth and oesophagus, abdominal pain, chest pain, shortness of breath, seizures, death.

12. Ecological information

ECOTOXICOLOGICAL DATA

Name of Substance: Phosphoric Acid

Fish toxicity: fish LC50: 138 mg/l
Aquatic organisms LC50: 100-1000 mg/l 96 h

Mobility: Completely soluble in water.

Breakdown: No specific biodegradation test data locate. While acidity of this material readily reduced in natural waters, the resulting phosphate may persist indefinitely or incorporate into biological systems.

Other Information: Depending on the concentration, phosphorus compounds may contribute to the eutrophication of water supplies.

13. Disposal considerations

This material and / or its container must be disposed of as hazardous waste. Do not empty into drains or the environment, take it to an authorized waste collection point. Disposal of local, state or national legislation must.

14. Transport information

ADR

Goods classified for transport : YES
UN-no : 1805
Proper shipping name : PHOSPHORIC ACID, LIQUID
Packing group : III
ADR class : 8/17c
ADR : 8/17c

UN
UN-no : 1805
Class : 8
Packing group : III

IMCO
UN-no : 1805
EmS :F-A,S-B
Class : 8
Packing group : III

15. Regulatory information

C;Corrosive

R-PHRASES R34 Causes burns.
R36 - Irritating to eyes.

S-PHRASES S2: Keep out of the reach of children.
S26: In case of contact with eyes rinse immediately with plenty of water and seek medical advice.
S36/37/39:Wear suitable protective clothing, gloves and eye/face protection.
S45:In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Dated 26.12.2008 of the Ministry of Environment HAZARDOUS SUBSTANCES AND PRODUCT CLASSIFICATION, PACKAGING AND LABELLING REGULATIONS according to classified.

16. Other information

This safety data sheet has been prepared on the basis of information given by our suppliers and our present knowledge. Information given is intended to present guidelines for safe handling, use, processing, storage, transport, disposal and discharge; it is not intended to be a guarantee or quality specification. The intent of this safety data sheet is to give a description of the product with regard to safe storage, handling and use. Information given applies only to the product itself, and not in combination with other products or in any processed form, unless this is specified in the text. We believe that all information in this safety data sheet (which replaces all previous versions) was correct at the date of issue. It is the responsibility of the recipient of this safety data sheet to ensure that information given here is read and understood by all who use, handle, dispose of or in any way come in contact with the product.

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