Material Safety Data Sheet

RXSOL RC 4100 (Brightening Preparation) (RXSOL-16-1695-025)

1. Product and Company Identifaction

Product Name	RXSOL-16-1695-025
Product Type	RXSOL RC 4100 (Brightening Preparation)

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

Chemical characterization : Mixtures

CAS: 7664-93-9 EINECS: 231-639-5	sulphuric acid:C R35	10-50%
CAS: 95-38-5 EINECS: 202-414-9	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	1-5%
Corrosion Inhibitor	Proprietory	1%

3. Hazards Identification

Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008

GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

C; Corrosive

R35: Causes severe burns.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Information concerning particular hazards for human and environment :

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- Classification system :

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4. First Aid Measures

General information:	Immediately remove any clothing soiled by the product.
After inhalation:	Supply fresh air; consult doctor in case of complaints. In case of unconsciousness place patient stably in side position for transportation.
After skin contact:	Immediately wash with water and soap and rinse thoroughly. Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.
After eye contact:	Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing:	Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately

5. Fire-fighting Measures

Extinguishing media

Suitable extinguishing agents : Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents : Foam

Special hazards arising from the substance or mixture
In case of fire, the following can be released:
Sulphur oxide (SOx)
Nitrogen oxides (NOx)
Carbon monoxide and carbon dioxide

Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

Additional information
Cool endangered receptacles with water spray.contaminated fire fighting water separately. It must not enter the sewage system.Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.Particular danger of slipping on leaked/spilled product.

Environmental precautions :
Inform respective authorities in case of seepage into water course or sewage system.Do not allow to enter sewers/ surface or ground water.
Do not allow to penetrate the ground/soil.
Methods and material for containment and cleaning up :
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Ensure adequate ventilation.
Dispose of the material collected according to regulations.

7. Handling and Storage

Precautions for safe handling	Ensure good ventilation/exhaustion at the workplace.Prevent formation of aerosols.
Information about fire - and explosion protection:	No special measures required.
Conditions for safe storage, including any incompatibilities	

Storage:

Requirements to be met by storerooms and receptacles:	Provide acid-resistant floor.
Information about storage in one common storage facility:	Do not store together with alkalis (caustic solutions).
Further information about storage conditions:	Keep container tightly sealed. Store at: +5°C to +30°C Durability: at least 2 years

8. Exposure controls and personal protection

In case of intensive or longer exposure use selfcontained respiratory protective device.
Protection of hands:
Acid resistant gloves,Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation After use of gloves apply skin-cleaning agents and skin cosmetics.

Material of gloves

Nitrile rubber, NBR The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection
Tightly sealed goggles
Body protection : Acid resistant protective clothing

9. Physical and chemical properties

Form:	Fluid
Colour:	Clear
Odour:	Characteristic
pH-value (5 g/l) at 20°C:	1 - 2
Change in condition Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	~ 100°C
Flash point:	Not applicable.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard
Vapour pressure at 20°C:	23 hPa
Density at 20°C:	1.34 g/cm³

Solubility in / Miscibility with water:	Fully miscible.

10. Stability and reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
Possibility of hazardous reactions
Heating occurs when water is added.
When diluting, always add acid to water, never vice versa.
Reacts with metals forming hydrogen.
Reacts with alkali and metals.
Hazardous decomposition products : None in case of intended use and storage.

11. Toxicological information

- Information on toxicological effects

- Acute toxicity:

- Primary irritant effect:

- on the skin Strong caustic effect on skin and mucous membranes.

- on the eye : Strong caustic effect.

- Sensitization : No sensitizing effects known.

- Additional toxicological information :
he product shows the following dangers according to the calculation method of the General EU Classification

Guidelines for Preparations as issued in the latest version:Corrosive Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12. Ecological information

-Toxicity

- Acquatic toxicity : No further relevant information available.

- Ecotoxical effects : Harmful to fish

- Additional ecological information:

- General notes:

- Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

- Danger to drinking water if even small quantities leak into the ground.
- Avoid transfer into the environment.
- Harmful to aquatic organisms

- Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value arms aquatic organisms.

13. Disposal considerations

- Waste treatment methods
- Recommendation
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- European waste catalogue
16 03 03* inorganic wastes containing dangerous substances

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

14. Transport information

Land transport ADR/RID (cross-border)- Land transport ADR/RID (cross-border)

ADR/RID class:	8 Corrosive substances.
Danger code (Kemler):	80
UN-Number:	2796
Packaging group:	II
Hazard label	8
UN proper shipping name:	2796 SULPHURIC ACID
Tunnel restriction code	E

Maritime transport IMDG:

IMDG Class:	8
UN Number:	2796
Label	8
Packaging group:	II
EMS Number:	F-A,S-B
Marine pollutant:	No
Segregation groups	Acids
Proper shipping name:	SULPHURIC ACID

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class:	8
UN/ID Number:	2796
Label	8
Packaging group:	II
Proper shipping name:	SULPHURIC ACID

- UN "Model Regulation": UN2796, SULPHURIC ACID, 8, II

- Special precautions for user Warning: Corrosive substances.

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Labelling according to EU guidelines:
The product has been classified and marked in accordance with EU Directives / Ordinance on HazardousMaterials.

- Code letter and hazard designation of product:
C Corrosive

Risk phrases:

35	Causes severe burns.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.Safety phrases:
23	Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28	After contact with skin, wash immediately with plenty of water.
30	Never add water to this product.
36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
61	Avoid release to the environment. Refer to special instructions/safety data sheets.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific roduct features and shall not establish a legally valid contractual relationship. Existing laws and regulations have to be bserved by the receiver on its own respo sibility.

Relevant phrases

H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
R22 Harmful if swallowed. R34 Causes burns. R35 Causes severe burns. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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