Material Safety Data Sheet

RXSOL RX 8 (RXSOL-15-1675-005)

1. Product and Company Identifaction

Product Name	RXSOL-15-1675-005
Product Type	RXSOL RX 8

Company Details:

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

Phone	+91 22 65113333 / 5555 / 9999
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2. Composition / informationon ingredients

Mixtures

Ingredient(s)	EC No	CAS No.	REACH No	Classification	Classification (EC) 1272/2008	Notes	Weight%
Citric Acid	201-069-1	77-92--9	01-2119457026-42	Xi R36	H319 Eye Irrit 2		20-30
Glycolic Acid	201-180-5	79-14-1	01-2119485579-17	C R22-34	H314 Skin Corr 1B H302 Acute Tox 4		1-3

Polymer. For the full text of the R, H and EUH phrases mentioned in this Section, see Section 16.
Workplace exposure limit(s), if available, are listed in subsection 8.1.

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.
[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.
[3] Exempted: Annex V of Regulation (EC) No 1907/2006.
[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

3. Hazards Identification

The product has been classified and labelled in accordance with Directive 1999/45/EC and corresponding national legislation.

Indication Of Danger:

- Risk phrases: R36 Irritating to eyes
- Label Elements: Xi Irritant
- Safety phrases: S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Further Indications On Label: Rinse and dry hands after use. For prolonged contact, protection for the skin may be necessary.
- Other Hazards: No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

4. First Aid Measures

Description of First Aid Measures

Inhalation:	Remove from source of exposure. Get medical attention
Skin contact:	Not required under normal use. If irritation develops get medical attention. Rinse with plenty of water.
Eye contact:	Wash off immediately with plenty of water. Get medical attention.
Ingestion:	Remove material from mouth. Immediately drink 1-2 glasses of water or milk. Get medical attention
Self Protection of First-Aider:	Consider personal protective equipment as indicated in section 8.

Most Important Symptoms And Effects, Both Acute And Delayed

Inhalation:	Causes irritation
Skin contact:	Unlikely to be irritant in normal use
Eye contact:	Causes irritation
Ingestion:	Causes irritation
Sensitisation:	No known effects.

Indication Of Any Immediate Medical Attention And Special Treatment Needed :

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

5. Fire-fighting Measures

Extinguishing media:	Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol resistant foam.
Special hazards arising from the substance or mixture:	No special hazards known.
Advice for fire-fighters:	As in any fire, wear self contained breathing apparatus and suitable protective clothin including gloves and eye/face protection.

6. Accidental Release Measures

Personal Precautions:	No special measures required
Environmental precautions:	Do not allow to enter drainage system, surface or ground water. Dilute with plenty of water
Methods For Cleaning Up:	Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).
Reference to other sections:	For personal protective equipment see Section 8.For disposal considerations see Section 13

7. Handling and Storage

Precautions For Safe Handling

Advice on safe handling:	Handle in accordance with good industrial hygiene and safety practice. Do not mix with other products unless advised by Diversey. For advice on general occupational hygiene and environmental exposure controls see section 8. For incompatible materials see section 10.
Prevention of fire and explosion:	No special precautions required

Conditions For Safe Storage, Including Any Incompatibilities

Requirements for storage rooms / facilities:	In accordance with local and national regulations
Combined storage in storage rooms / facilities:	In accordance with local and national regulations. Store away from products containing chlorine-based bleaching agents or sulphites
Basic storage conditions:	Store in original container. Keep container tightly closed. For conditions to avoid see section 10.
Specific end use(s):	No specific advice for end use available

8. Exposure controls and personal protection

Control Parameters Workplace exposure limits

- Air limit values, if available:
- Biological limit values, if available:
- Recommended monitoring procedures, if available:
- Additional exposure limits under the conditions of use, if available

DNEL/DMEL and PNEC values Human exposure
DNEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term – Local effects	Short term – Systemic effects	Long term – Local effectsa	Long term – Systemic effects
Citric Acid	No data available	No data available	No data available	No data available
Glycolic Acid	No data available	No data available	No data available	0.75

No data available

Ingredient(s)	Short term – Local effects	Short term – Systemic effects	Long term – Local effectsa	Long term – Systemic effects
Citric Acid	No data available	No data available	No data available	No data available
Glycolic Acid	No data available	No data available	No data available	57.69

DNEL dermal exposure – Consumer

Ingredient(s)	Short term – Local effects	Short term – Systemic effects	Long term – Local effectsa	Long term – Systemic effects
Citric Acid	No data available	No data available	No data available	No data available
Glycolic Acid	No data available	No data available	No data available	28.85

DNEL inhalatory exposure - Worker (mg/m3)

Ingredient(s)	Short term – Local effects	Short term – Systemic effects	Long term – Local effectsa	Long term – Systemic effects
Citric Acid	No data available	No data available	No data available	No data available
Glycolic Acid	No data available	No data available	No data available	10.56

DNEL inhalatory exposure - Consumer (mg/m3)

Ingredient(s)	Short term – Local effects	Short term – Systemic effects	Long term – Local effectsa	Long term – Systemic effects
Citric Acid	No data available	No data available	No data available	No data available
Glycolic Acid	No data available	No data available	No data available	2.6

Environmental exposure
Environmental exposure – PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
Citric Acid	0.44	0.0440	No data available	1000
Glycolic Acid	0.0321	0.0031	0.312	7

Environmental exposure - PNEC, continued

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
Citric Acid	34.6	3.46	33.1	No data available
Glycolic Acid	0.115	No data available	0.07	No data available

Exposure controls
General health and safety measures: Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and at the end of the work day. Avoid contact with eyes.

The following information applies for the uses indicated in subsection 1.2. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section. Recommended safety measures for handling the undiluted product:

Appropriate engineering controls: No special requirements under normal use conditions Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal Protective Equipment
Eye / face protection: Safety glasses are not normally required. However their use is recommended in those cases where splashes may occur when handling the product.
Hand protection: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.
Body protection: No special requirements under normal use conditions.
Respiratory protection: Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.
Environmental exposure controls: No special requirements under normal use conditions

9. Physical and chemical properties

Physical State:	Liquid
Colour:	Yellow
Odour:	Product specific
Odour Threshold:	Not applicable
pH:	2 (neat)
Melting/Freezing Point (°C):	Not determined
Initial Boiling point/range (°C):	Not determined
Flash point (°C):	Not applicable
Sustained Combustion:	Not determined
Evaporation Rate:	Not determined

Flammability (Solid/Gas):	Not determined
Upper/Lower Flammability Limit:	Not determined
Vapour Pressure:	Not determined
Vapour Density:	Not determined
Relative Density:	1.10 g/cm³ (20°C)
Solubility in / Miscibility with Water:	Fully miscible
Autoignition Temperature:	Not determined
Decomposition Temperature:	Not determined
Viscosity:	Not determined
Explosive properties:	Not explosive
Oxidising properties:	Not oxidising
Surface Tension (N/m):	Not determined
Corrosion to Metals:	Not determined

10. Stability and reactivity

Reactivity: No reactivity hazards known under normal storage and use conditions.
Chemical stability: Stable under normal storage and use conditions.
Possibility of hazardous reactions: No hazardous reactions known under normal storage and use conditions.
Conditions to avoid: None known under normal storage and use conditions.
Incompatible materials: Keep away from products containing chlorine-based bleaching agents or sulphites. Reacts with alkali
Hazardous decomposition products: None known under normal storage and use conditions.

11. Toxicological information

Information On Toxicological Effects
Mixtures: No test data is available on the mixture Substance data, where relevant and available, are listed below.

Acute toxicity –
Acute oral toxicity

Ingredients	End point	Value (mg/kg)	Species	Method	Exposure Time (h)
Citric Acid	LD50	3000	Rat	Method not given	
Glycolic Acid	LD50	2040	Rat	Method not given	

Acute dermal toxicity

Ingredients	End point	Value (mg/kg)	Species	Method	Exposure Time (h)
Citric Acid	LD50	2000	Rat		
Glycolic Acid		Not avaliable		Method not given	

Acute inhalative toxicity

Ingredients	End point	Value (mg/kg)	Species	Method	Exposure Time (h)

Citric Acid		Not avaliable			
Glycolic Acid	LD50	3.6	Rat	Method not given	

Irritation and corrosivity
Skin irritation and corrosivity

Ingredients	Result	Species	Method	Exposure Time
Citric Acid	Not Irritant	Rabbit	OECD 404 (EU B.4)	
Glycolic Acid	Corrosive	Rabbit	Method not given	

Eye irritation and corrosivity

Ingredients	Result	Species	Method	Exposure Time
Citric Acid	Severe Damage	Rabbit	OECD 405 (EU B.4)	
Glycolic Acid	Corrosive	Rabbit	Method not given	

Respiratory tract irritation and corrosivity

Ingredients	Result	Species	Method	Exposure Time
Citric Acid	Not avalible			
Glycolic Acid	Not avalible			

Sensitisation - Sensitisation by skin contact

Ingredients	Result	Species	Method	Exposure Time
Citric Acid	Not sensitising	Guinea Pig	Method not given	
Glycolic Acid	Not sensitising	Guinea Pig	Method not given	

Sensitisation by inhalation

Ingredients	Result	Species	Method	Exposure Time
Citric Acid	Not avalible			
Glycolic Acid	Not avalible			

Repeated dose toxicity - Sub-acute or sub-chronic oral toxicity

Ingredients	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure Time	Specific effects & organs affected
Citric Acid		Not avalible				
Glycolic Acid		Not avalible				

Sub-chronic dermal toxicity

Ingredients	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure Time	Specific effects & organs affected
Citric Acid		Not avalible				
Glycolic Acid		Not avalible				

Sub-chronic inhalation toxicity

Ingredients	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure Time	Specific effects & organs affected
Citric Acid		Not avalible				
Glycolic Acid		Not avalible				

Chronic toxicity

Ingredients	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure Time	Specific effects & organs affected	Remark
Citric Acid		Not avalible					
Glycolic Acid		Not avalible					

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
Mixture data: Based on available data, the classification criteria are not met. Substance data, where relevant and available Carcinogenicity

Ingredient(s)	Effect
Citric Acid	No evidence for carcinogenicity, negative test results
Glycolic Acid	No data available

Mutagenicity

Ingredient(s)	Result (in vitro)	Method (in vitro)	Result (in vivo)	Method (in vivo)
Citric Acid	No data available		No evidence of genotoxicity, negative test results	Method not given
Glycolic Acid	No data available		No evidence of genotoxicity, negative test results	Method not given

Toxicity for reproduction

Ingredients	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure Time	Specific effects & organs affected	Remark
Citric Acid			Not avalible					
Glycolic Acid			Not avalible					

Potential Adverse Health Effects And Symptoms : Effects and symptoms related to the product, if any, are listed in Section 4

12. Ecological information

Toxicity
Mixtures: No test data is available on the mixture.
Substance data, where relevant and available, are listed below

Aquatic short-term toxicity
Aquatic short-term toxicity – fish

Ingredients	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure Time
Citric Acid	LC50	440	Leuciscus idus	Method not given	48hrs
Glycolic Acid	LC50	164	Pimephales Promelas	Method not given	96hrs

Aquatic short-term toxicity – crustacea

Ingredients	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure Time

Citric Acid	EC50	1535	Daphnia Magna Straus	Method not given	24hrs
Glycolic Acid	EC50	141	Daphnia Magna Straus	Method not given	48hrs

Aquatic short-term toxicity – algae

Ingredients	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure Time
Citric Acid	LC50	435	Scenedesmus quadricauda	Method not given	168hrs
Glycolic Acid		Not data avalible			

Aquatic short-term toxicity - marine species

Ingredients	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure Time
Citric Acid		Not data avalible			
Glycolic Acid		Not data avalible			

Impact on sewage plants - toxicity to bacteria

Ingredients	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure Time
Citric Acid	EC50	10000	Pseudomonas Putida	Method not given	16 hrs
Glycolic Acid		Not data avalible			

Aquatic long-term toxicity - Aquatic long-term toxicity – fish

Ingredients	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure Time
Citric Acid		Not data avalible			
Glycolic Acid		Not data avalible			

Aquatic long-term toxicity – crustacea

Ingredients	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure Time
Citric Acid		Not data avalible			
Glycolic Acid		Not data avalible			

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Terrestrial Toxicity

- Terrestrial toxicity - soil invertebrates, including earthworms, if available:
- Terrestrial toxicity - plants, if available:
- Terrestrial toxicity - birds, if available:
- Terrestrial toxicity - beneficial insects, if available:
- Terrestrial toxicity - soil bacteria, if available:

Persistence And Degradability Abiotic degradation

- Abiotic degradation - photodegradation in air, if available:
- Abiotic degradation - hydrolysis, if available:
- Abiotic degradation - other processes, if available:

Bioaccumulative Potential
Partition coefficient n-octanol/water (log Kow)

Ingredients	Value	Method	Evaluation	Remark
Citric Acid	-1.72		No bioaccumulation expected	

Glycolic Acid	-1.07			

Bioconcentration Factor (BCF)

Ingredients	Value	Method	Evaluation	Remark
Citric Acid	Not data avalible			
Glycolic Acid	Not data avalible			

Mobility In Soil
Adsorption/Desorption to soil or sediment

Ingredients	Adsorption coefficien Log Koc	Desorption coefficient Log Koc(des)	Method	Soil / sediment type	Evaluation
Citric Acid	Not data avalible				Potential for mobility in soil, soluble in water
Glycolic Acid	Not data avalible				

Results of PBT and vPvB assessment: Substances that fulfil the criteria for PBT/vPvB, if any, are listed in section 3. Other adverse effects: No other adverse effects known.

13. Disposal considerations

Waste Treatment Methods
Waste from residues / unused
Products: Dispose of in compliance with all Federal, state, provincial, and local laws and regulations.
European Waste Catalogue: 20-01-29- detergents containing dangerous substances. Empty Packaging
Recommendation: Dispose of observing national or local regulations.
Suitable cleaning agents: Water, if necessary with cleaning agent.

14. Transport information

ADR, RID, ADN, IMO/IMDG, ICAO/IATA
UN number: Non dangerous goods
UN proper shipping name: Non dangerous goods
Transport hazard class(es): Non dangerous goods
Packing group: Non dangerous goods
Environmentally Hazardous: Non dangerous goods
Special precautions for user: Non dangerous goods

Transport in bulk according to Annex II of MARPOL
73/78 and the IBC Code: The product is not transported in bulk tankers.

15. Regulatory information

Safety, Health And Environmental Regulations/Legislation Specific For The Substance Or Mixture

Chemical safety assessment: A chemical safety assessment has not been carried out on the mixture

16. Other information

The information in this document is based upon our best present knowledge. However it does not constitute a guarantee for any specific product features and does not establish a legally binding contract.

MSDS code: 63721
MSDS Revision Date: 19-Nov-2012
Reason for Revision: Overall design adjusted in accordance with Regulation (EC) No 1907/2006, Annex II
Full text of the R, H and EUH R22 Harmful if swallowed
phrases mentioned in section 3: R34 Causes burns
R36 Irritating to eyes

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage
H319 Causes serious eye irritation.

Abbreviations and acronyms: AISE The international Association for Soaps, Detergents and Maintenance Products
DNEL Derived No Effect Limit
EUH CLP Specific hazard statement
PBT Persistent, Bioaccumulative and Toxic
PNEC Predicted No Effect Concentration
REACH number - REACH registration number, without supplier specific part
vPvB very Persistent and very Bioaccumulative