Material Safety Data Sheet

Scale Dissolver 2000RX (RXSOL-68-3071-025)

1. Product and Company Identifaction

Product Name	: Scale Dissolver RX
Part Number	: RXSOL-68-3071-025

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

Branch : Kandla, Hazira, Mumbai, Chennai, Vizag, Kolkata, Fujairh, Barka Oman, Kenya

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Email	123@rxmarine.com
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2. Composition / informationon ingredients

Name of Substance	Cas Number	EINECS No	Wt.%	Symbol
Glycine,N,N-1,2-ethanediylbis[N-(car boxymethyl)-, Tetrapotassium Salt	5964-35-2	227-743-5	10 -30 %	Xi
Carbonic acid, Dipotassium salt	584-08-7	209-529-3	5 - 10%	Xn
Glycine,N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, Pentapotassium salt	7216-95-7	404-290-3	5-10 %	Xi

3. Hazards Identification

Signal Word	Danger
Hazard Statements	H314 - Causes severe skin burns and eye damage
Precautionary statements - prevention	Keep only in original container. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection..
Precautionary statements - response	P260 - Do not breathe dust/fume/gas/mist/vapours/spray P280 - Wear protective gloves/protective clothing/eye protection/face protection P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/physician P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable P264 - Wash face, hands and any exposed skin thoroughly after handling P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P363 - Wash contaminated clothing before reuse P391 - Collect spillage
Other Hazard	Not classified as PBT/vPvB by current EU criteria

4. First Aid Measures

Eye Contact	Remove contact lenses, if worn. Immediately flush eyes with water for 15 minutes while holding eyelids open. Immediate medical attention is required.

Skin Contact	Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Chemical burns must be treated by a physician.
Inhalation:	Move the exposed person to fresh air at once. If breathing is difficult, (trained personnel should) give oxygen. If not breathing, give artificial respiration. Seek medical attention at once.
Ingestion:	Do NOT induce vomiting. Get immediate medical attention. Rinse mouth. Risk of product entering the lungs on vomiting after ingestion. Never give anything by mouth to an unconscious person.
General Advice	Seek medical attention for all burns, regardless how minor they may seem. The severity of the symptoms described will vary dependant of the concentration and the length of exposure. If adverse symptoms develop, the casualty should be transferred to hospital as soon as possible.

5. Fire-fighting Measures

Suitable extinguishing media	Alcohol Foam, CO2, Dry Chemical
Extinguishing media which must not be used for safety reasons	None known.
Hazardous combustion products	Fire or high temperatures create: Carbon oxides (COx), Nitrogen oxides (NOx)..
Advice for firefighters	Wear self-contained breathing apparatus. Wear full protective equipment and apparatus.
Specific extinguishing methods	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.Containers close to fire should be removed immediately or cooled with water.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Do not get on skin or clothing. Wash thoroughly after handling. Do not breathe vapours or spray mist. Use personal protective equipment. See also section 8.
Enviromental Precaution	Do not allow contact with soil, surface or ground water.If the products get into drains, inform the relevant authorities immediately.
Methods and materials for containment and cleaning up	Stop leak if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see Section 13).

7. Handling and Storage

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Avoid spills and splashing during use. Do not breathe vapors or spray mist.
Storage	Ensure adequate ventilation. Keep airborne concentrations below exposure limits. Keep containers tightly closed in a dry, cool and well-ventilated place Store above freezing temperature Avoid contact with: Strong oxidising agents.
Advice on general occupational hygiene	Use good work and personal hygiene practices to avoid exposure When using do not smoke, eat or drink. Wash hands and face before breaks and immediately after handling the product Remove contaminated clothing
Storage class Packaging materials	Corrosive storage. Use specially constructed containers only

8. Exposure controls and personal protection

Engineering Control	Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.
Personal Protection	Eye protection : Wear eye protection/ face protection. Hand protection : Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Exposure Limits:

Ingredients	EU OEL - Third List	UK	Australia	Denmark
Glycine,N,N-1,2-ethanediylbis[N-(car boxymethyl)-, tetrapotassium salt	Not determined	Not determined	Not determined	Not determined
Carbonic acid, dipotassium salt	Not determined	Not determined	Not determined	Not determined
Glycine,N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, pentapotassium salt	Not determined	Not determined	Not determined	Not determined

Derived No Effect Level (DNEL)

Long term exposure local effects
Carbonic acid, dipotassium salt
Inhalation — 10 mg/m³

Short term exposure systemic effects
Carbonic acid, dipotassium salt
Dermal — 16 mg/cm²

Exposure Control

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation..

Hygiene Measures: Wash hands before eating, drinking or smoking, Remove and wash contaminated clothing before re-use.



Gloves



Suit

9. Physical and chemical properties

Physical State	Liquid
Colour	Colourless , Clear Liquid
Odour	No information available
Boiling point and boiling range	100 °C / 212 °F
Flash Point	>100°C
Freezing Point	No Data Available
pH	10 -11
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Explosive properties	No data available
Oxidising properties	None known
Vapor pressure	No data available
Relative vapor density	No data available
Density	1.15 - 1.17 g/cm³ @ 20°C
Water solubility	Soluble
Solubility in other solvents	No data available
Partition coefficient: octanol	No data available
Autoignition temperature	No data available
Thermal decomposition	No data available
Viscosity, kinematic	No data available
Explosive properties	No data available
Oxidizing properties	No data available

Molecular weight	No data available
VOC	No data available
Kinematic viscosity	10 cst
Pour point	-4°C / 24.8°F

10. Stability and reactivity

Recativity	Corrosive
Stability	Stable under normal temperature conditions and recommended use.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Incompatible materials	Strong oxidising agents
Hazardous Decomposition	Decomposition products may include the following materials: Carbon oxides (COx), Nitrogen oxides (NOx).
Condition to Avoid	Store above freezing temperature.
Polymerization	Will not occur.

11. Toxicological information

Acute toxicity

Route of Exposure	Inhalation, Eye contact, Skin contact
Eyes	Causes burns. May cause irreversible damage to eyes.
Skin	Causes severe skin burns.
Ingestion	Causes burns. Can burn mouth, throat, and stomach.
Inhalation	Causes burns. Inhaled corrosive substances can lead to a toxic edema of the lungs.
Unknown acute toxicity	Not applicable.

Toxicology data for the components

Ingredients	LD50 Oral	LD50 Dermal	LC50 Inhalation
Glycine,N,N-1,2-ethanediylbis[N-(car boxymethyl)-, tetrapotassium salt	No data available	No data available	No data available
Carbonic acid, dipotassium salt	= 1870 mg/kg (Rat)	No data available	No data available
Glycine,N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, pentapotassium salt	No data available	No data available	No data available

Sensitisation	This product does not contain any components suspected to be sensitizing.
Mutagenic effects	This product does not contain any known or suspected mutagens.
Carcinogenicity	This product does not contain any known or suspected carcinogens.
Reproductive toxicity	This product does not contain any known or suspected reproductive hazards.
Single exposure	Not classified
Repeated exposure	Not classified.
Aspiration hazard	Not applicable.

12. Ecological information

Toxicity	The product component(s) are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.
Toxicity to fish	This product is not considered toxic to fish.

Toxicity to daphnia and others	This product is not considered toxic to invertebrates.
Toxicity to algae	This product is not considered toxic to algae

Ingredients	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Glycine,N,N-1,2-ethanediylbis[N-(car boxymethyl)-, tetrapotassium salt	No information available	No information available	No information available
Carbonic acid, dipotassium salt	No information available	No information available	No information available
Glycine,N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, pentapotassium salt	No information available	No information available	No information available

Biodegradability	The product is not biodegradable.
Persistence and degradability	No data available
Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating.
Mobility in soil	Soluble in Water
Results of PBT and vPvB assessment	Not classified as PBT/vPvB by current EU criteria.

13. Disposal considerations

Remarks	Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.
Waste Disposal	The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility
EWC Waste Disposal No	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used The following Waste Codes are only suggestions: EWC waste disposal No: 07 01 04 Waste Code: 7135 Organic Bases

14. Transport information

Hazard Pictograms:

UN Number	UN3267
Proper shipping name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Diethylenetriaminepentaacetic acid, pentapotassium salt)
Transport hazard class(es) 8	
ADR/RID	8
Subsidiary risk IMDG	8
Subsidiary risk IATA	8
Packing group	
Packing group	III
Environmental hazards	
Environmental hazards	No
Marine pollutant	No
ADR/RID	
Hazard ID	80
Tunnel Category	(E)
IMDG	
EmS Code	F-A S-B

IATA

Emergency Action Code	(EAC) 2X
Maximum quantity	60 L
Hazchem code	ADG 2X
Maximum quantity	5 L

15. Regulatory information

Australian Standard for the Uniform Scheduling of Drugs and Poisons
Carbonic acid, dipotassium salt
Schedule 6
Schedule 5
Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

Regulation

This safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC: 2011 (2003)]. National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004) 3rd Edition]. National Occupational Health and Safety Commission's Exposure Standards for Atmospheric Contaminants in the occupational Environment [NOHSC:1003 (1995)].

International inventories
USA, Toxic Substances Control Act inventory (TSCA) Complies
European Union - EINECS and ELINCS Complies
Canada (DSL) Complies
Philippines (PICCS) Complies
Inventory - Japan - Existing and New Chemicals list Does not Comply
China (IECSC) Complies
Australia (AICS) Complies
Korea (KECL) Does not Comply
Inventory - New Zealand - Inventory of Chemicals (NZIoC) Complies

Chemical safety assessment

No data available.

Further information

FOR INDUSTRIAL USE.

16. Other information

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 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.