Material Safety Data Sheet

Glycolic Acid 70 (RXSOL-19-6604-250)

1. Product and Company Identifaction

Product Name	Glycolic Acid 70
Part Number	RXSOL-19-6604-250

Company Details:

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

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2. Composition / informationon ingredients

Chemical Name	CAS Number	EC Number	Weight
Glycolic Acid	79-14-1	201-180-5	>= 70 - 90 %

3. Hazards Identification

Hazard statement(s)	H314 Causes severe skin burns and eye damage.
Precautionary statement(s)	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor
Other hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

4. First Aid Measures

General information	Consult a physician. Show this material safety data sheet to the doctor in attendance.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician
After skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
After eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

After swallowing	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Indication of any medical attention	No data available

5. Fire-fighting Measures

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given.
Special hazards arising from the substance or mixture	Carbon oxides
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	No data available

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedur	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
Reference to other sections	For disposal see section 13.

7. Handling and Storage

Precautions for safe handling	Avoid inhalation of vapor or mist.
Storage	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place. Storage class (TRGS 510): 8A: Combustible, corrosive hazardous materials
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8. Exposure controls and personal protection

Control parameters	Components with workplace control parameters
Appropriate Engineering controls	Use as general industrial hygiene practice.

Personal protective equipment	**Eye/face protection** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). **Skin protection** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of ontaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. **Body Protection** impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. **Respiratory protection** Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Control of environmental exposure Do not let product enter drains.

9. Physical and chemical properties

Form	Liquid
Colour	White to straw
Odour	Burnt Sugar
Odor Threshold	No Data Available
pH (50 g/l at 25 °C)	2
Melting/Freezing Point	10°C
Boiling point/Boiling range	113°C
Flash point	Not available
Ignition temperature	No Data Available
Danger of explosion	No Data Available
Vapour pressure at 20°C	1.5 kPa (11 mm Hg, room temperature)
Vapour Density	No Data Available
Density at 20°C	1.27 g/cm³
Relative Density	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Water solubility at 20 °C	Completely soluble

10. Stability and reactivity

Reactivity	No additional information available
Chemical stability	The product is chemically stable under standard ambient conditions (room temperature) .
Possibility of hazardous reactions	No Data Available
Conditions to avoid	No data available
Incompatible materials	No data available
Hazardous decomposition products	In the event of fire: see section 5

11. Toxicological information

Acute toxicity	Acute toxicity LD50 Oral - Rat - male and female - 2.040 mg/kg (Glycolic acid) (US-EPA) Acute toxicity estimate Inhalation - 4 h - > 5 mg/l - dust/mist(Calculation method) LC50 Inhalation - Rat - male and female - 4 h - 3,6 mg/l - aerosol (Glycolic acid) (OECD Test Guideline 403) Dermal: No data available
Irritation/Corrosion	Skin - Rabbit (Glycolic acid) Result: Corrosive - 4 h (OECD Test Guideline 404)
Serious eye damage/eye irritation	Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405) Remarks: (as aqueous solution) Eyes - Rabbit (Glycolic acid) Result: Severe eye irritation
Sensitization	Sensitisation test: - Guinea pig (Glycolic acid) Result: negative (OECD Test Guideline 406)
Mutagenicity	Germ cell mutagenicity Test Type: reverse mutation assay (Glycolic acid) Test system: S. typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: reverse mutation assay (Glycolic acid) Test system: E. coli Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative (Glycolic acid) Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Oral Method: OECD Test Guideline 474 Result: negative
Carcinogenicity	No Data Available
Reproductive toxicity	No Data Available
Teratogenicity	No Data Available

12. Ecological information

Toxicity to Fish	static test LC50 - Pimephales promelas (fathead minnow) - 164 mg/l - 96 h (Glycolic acid) (US-EPA) Remarks: (above the solubility limit in the test medium)
Toxicity to daphnia and other aquatic	static test EC50 - Daphnia magna (Water flea) - 141 mg/l - 48 h (Glycolic acid) (OECD Test Guideline 202) Remarks: (above the solubility limit in the test medium)
Toxicity to Alge	static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 44 mg/l - 72 h (Glycolic acid) (OECD Test Guideline 201) static test NOEC - Pseudokirchneriella subcapitata (green algae) - 10 mg/l - 72 h (Glycolic acid) (OECD Test Guideline 201) static test EC50 - Pseudokirchneriella subcapitata (microalgae) - 21,6 mg/l - 72 h (Glycolic acid) (OECD Test Guideline 201)
Toxicity to bacteria	static test EC50 - activated sludge - > 70 mg/l - 3 h (Glycolic acid) (OECD Test Guideline 209)
Persistence and degradability	Biodegradability aerobic - Exposure time 11 d (Glycolic acid) Result: 78 % - Readily biodegradable. (OECD Test Guideline 301B)
Other adverse effects	Harmful to aquatic life.
Bioaccumulative potential	Bioaccumulation : Cyprinus carpio (Carp) - 6 Weeks at 25 °C - 0,25 mg/l(Triethanolamine) Bioconcentration factor (BCF): 3,9 (OECD Test Guideline 305) Cyprinus carpio (Carp) - 6 Weeks at 25 °C - 2,5 mg/l(Triethanolamine) Bioconcentration factor (BCF): 0,4 (OECD Test Guideline 305)
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Mobility in soil	No data available

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	Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

14. Transport information

Transport hazard class(es)

	DOT	TDG Classification	IMDG	IATA
UN Number	UN 3265	UN 3265	UN 3265	UN 3265
Proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Glycolic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Glycolic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Glycolic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Glycolic acid)
Transport hazard class(es)	8	8	8	**8**
Packing Group	II	II	II	II
Environmental hazards	NO	NO	NO	NO

Marine pollutant No

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture — This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical safety assessment — For this product a chemical safety assessment was not carried out

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.