Material Safety Data Sheet

HARDNESS STABILIZER POLYCARBOX (RXSOL-51-3340-1200)

1. Product and Company Identifaction

Product Name	HARDNESS STABILIZER POLYCARBOX
Part Number	RXSOL-51-3340-1200

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

Branch : Kandla, Mumbai, Chennai, Kakinada, Vizag, Kolkata, Fujairah Muscat

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Website	www.rxmarine.com

2. Composition / informationon ingredients

Name of Substance	Cas Number	Wight %
Polycarboxylate, Polylmer Proprietory Mixture	Not Hazardous	60 - 100 %

Chemical nature	Polymer of acrylic polymer product
Mixtures	This product is a mixture. This product does not contain, in concentrations equal to or greater than those laid down by the Regulation (EC) No. 2015/830, any substances presenting a health or environmental hazard nor any substances for which there are Community workplace exposure limits in place

3. Hazards Identification

Classification according to Regulation (EC) No 1272/2008	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
Label elements	Labelling according to Regulation (EC) No 1272/2008: Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
Other hazards	No data available

4. First Aid Measures

Inhalation	Move to fresh air.
Skin Contact	Wash with water and soap as a precaution. If skin irritation persists, call a physician.
Eye Contact	Rinse with plenty of water. If eye irritation persists, consult a specialist.
Ingestion	Drink 1 or 2 glasses of water. Consult a physician if necessary. Never give anything by mouth to an unconscious person.
Most important symptoms/effects, acute and delayed	Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.
Indication of any immediate medical attention and special treatment needed. Notes to Physician	Notes to physician: Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. Fire-fighting Measures

Suitable Extinguishing Media	Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	Not applicable
Hazardous combustion products	No data available
Unusual Fire and Explosion Hazards	Material can splatter above 100C/212F. Dried product can burn.
Fire Fighting Procedures	No data available
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures.	Use personal protective equipment. Keep people away from and upwind of spill/leak. Material can create slippery conditions.
Environmental Precautions	CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.
Methods and material for containment and cleaning up	Contain spills immediately with inert materials (e.g., sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.
Reference to other sections	References to other sections, if applicable, have been provided in the previous sub-sections.

7. Handling and Storage

Precautions for safe handling	Monomer vapors can be evolved when material is heated during processing operations. See SECTION 8, for types of ventilation required.
Conditions for safe storage, including any incompatibilities	Keep from freezing - product stability may be affected. STIR WELL BEFORE USE. Storage stability .Storage temperature: 1 - 49 °C
Specific end use(s)	See the technical data sheet on this product for further information.

8. Exposure controls and personal protection

Engineering controls	Use only in area provided with appropriate exhaust ventilation.
Protective measures	Facilities storing or utilizing this material should be equipped with an eyewash facility.
Eye/face protection	Safety glasses with side-shields Eye protection worn must be compatible with respiratory protection system employed.
Skin protection Hand	The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may not provide adequate protection): Neoprene gloves
Respiratory protection	None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements(89/656/EEC, 89/686/EEC), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.
Control of environmental exposure	Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

9. Physical and chemical properties

Appearance	Liquid clear
Colour	No data available
Odour	Odourless or Mild odor
Odor Threshold	No data available
pH	6.5 - 7.50
Freezing Point	0 °C (32 °F) Water
Boiling point	(760 mmHg) 100.00 °C Water
Flash Point	Non combustible
Decomposition temperature	>230 °C (446.00 °F)

Lower explosion limit	Not Applicable
Uper explosion limit	Not Applicable
Vapour pressure	17.0 mmHg at 20 °C (68.00 °F) Water
Relative vapour density	1.0 Water
Water Solubility	Completely soluble
Relative density	1.40
Viscosity, dynamic	1,000 mPa.s maximum
Evaporation rate	1.00 Water
Explosive properties	No information available
Oxidizing properties	No information available

10. Stability and reactivity

Reactivity	No data available
Stability	No data available
Possibility of Hazardous Reaction	None known. Product will not undergo polymerization. Stable
Conditions to Avoid	No data available
Incompatible Materials	There are no known materials which are incompatible with this product.
Hazardous Decomposition Products	Thermal decomposition may yield acrylic monomers.

11. Toxicological information

Acute toxicity	LD50, Rat, > 5,000 mg/kg
Acute dermal toxicity	LD50, Rabbit, > 5,000 mg/kg
Acute inhalation toxicity	Product test data not available. Refer to component data.
Skin corrosion/irritation	No skin irritation
Serious eye damage/irritation	slight irritation
Sensitization	Did not cause allergic skin reactions when tested in guinea pigs. Did not cause allergic skin reactions when tested in humans.
For respiratory sensitization	No data available.
STOT-single exposure	Product test data not available. Refer to component data.
STOT-repeated exposure	Product test data not available. Refer to component data.
Carcinogenicity	Product test data not available. Refer to component data.
Teratogenicity	Product test data not available. Refer to component data.
Reproductive toxicity	Product test data not available. Refer to component data.
Mutagenicity	Ames mutagenicity: Negative
Aspiration Hazard	Product test data not available. Refer to component data.

12. Ecological information

Acute toxicity to fish	LC50, Zebra fish (Danio/Brachydanio rerio), 96 Hour, >200 mg/l, OECD Test Guideline 203 or Equivalent
Acute toxicity to aquatic invertebrates	EC50, Daphnia magna (Water flea), 48 Hour, >200 mg/l, OECD Test Guideline 202 LC50, Marine copepod (acartia tonsa), 48 Hour, >1,000 mg/l, OECD Test Guideline 202
Acute toxicity to algae/aquatic plants	Growth rate EC50, Marine algae (Skeletonema costatum), 48 Hour, Growth rate, 480 mg/lNOEC 400 mg/l, OECD Test Guideline 201.Chronic aquatic toxicity Chronic toxicity to aquatic invertebrates EC50, Abra alba, 5 d, 2204 mg/kg
Persistence and degradability	Biodegradability: No applicable data. Exposure time: 28 d Method: OECD Test Guideline 302B or Equivalent

Bioaccumulative potential	No data available.
Mobility in soil	No data available
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.
Other adverse effects	No data available.

13. Disposal considerations

Waste from Residues / Unused Products	For disposal, incinerate or landfill at a permitted facility in accordance with local, state, and federal regulations. The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact the authorized waste disposal services.

14. Transport information

DOT	Not regulated
TDG	Not regulated
Hazard Class	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

15. Regulatory information

Safety, health and environmental regulations/ legislation specific for the substance or mixture	REACh Regulation (EC) No 1907/2006 This product contains only components that have been either pre-registered, registered, are exempt from registration, are regarded as registered or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH)., Polymers are exempted from registration under REACH. All relevant starting materials and additives have been either pre-registered, registered, or are exempt from registration to Regulation (EC) No. 1907/2006 (REACH)., The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer´s/user´s responsibility to ensure that his/her understanding of the regulatory status of this product is correct. Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Listed in Regulation: Not applicable
Chemical safety assessment	Not applicable

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.