Material Safety Data Sheet

Citric Acid Monohydrate (RXSOL-19-3064-025)

1. Product and Company Identifaction

Product Name	:Citric Acid Monohydrate
Part Number	:RXSOL-19-3064-025

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

Branch : Kandla, Mumbai, Chennai, Vizag, Kolkata, UAE OMAN & KENYA

Phone	+91 22 20871200-1400
Fax	+91 22 200871500 :::AOH :0091 9821214367
Email	123@rxmarine.com
Website	www.rxmarine.com

2. Composition / informationon ingredients

Name of Substance	Cas Number	EC No	Wt.%	Symbol
Citric Acid	5949-29-1	201-069-1	99-100%	--

3. Hazards Identification

Signal Word	Warning
Hazard Statements	May form combustible dust concentrations in air Causes serious eye irritation.
Precautionary statements - prevention	Wash face, hands and any exposed skin thoroughly after handling Wear eye/face protection Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. ContinuerinsingIf eye irritation persists: Get medical advice/attention.
Store	Store in a well-ventilated place. Keep container tightly closed.
Precautionary statements - response	None identified

4. First Aid Measures

General Advice	If symptoms persist, call a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Getmedical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritationpersists,call a physician.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. Get medical attentionif symptoms occur.
Ingestion:	Clean mouth with water and drink afterwards plenty of water. Get medical attentionif symptoms occur.
Notes to Physicians	Treat symptomatically.

5. Fire-fighting Measures

Suitable extinguishing media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Extinguishing media which must not be used for safety reasons:	No information available

Special exposure hazards arising from the substance itself, combustion products, resulting gases:	Dust can form an explosive mixture with air. Keep product and empty container away from heat and sources of ignition. Finedustdispersed in air may ignite. Carbon monoxide (CO). Carbon dioxide (CO_2)
Special protective equipment for fire-fighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gea.
Additional information	Flash Point 173.9 °C / 345 °F

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Use personal protective equipment as required. Avoiddust formation
Enviromental Precaution	Should not be released into the environment.
Methods and materials for containment and cleaning up	Sweep up and shovel into suitable containers for disposal. Keep in suitable, closedcontainers for disposal.

7. Handling and Storage

Advice on safe handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Donot get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. IncompatibleMaterials. Strong oxidizing agents. Strong bases.

8. Exposure controls and personal protection

Engineering Control	Ensure that eyewash stations and safety showers are close to the workstationlocation. Ensure adequate ventilation, especially in confined areas.
Personal Protection	Eye/face Protection : Wear appropriate protective eyeglasses or chemical safety goggles as describedbyOSHA's eye and face protection regulations in 29 CFR 1910.133 or EuropeanStandardEN166. Skin and body protection : Wear appropriate protective gloves and clothing to prevent skin exposure. Respiratory Protection : Follow the OSHA respirator regulations found in 29 CFR 1910.134 or EuropeanStandard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposurelimitsestablished by the region specific regulatory bodies.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.



Gloves



Suit

9. Physical and chemical properties

Form	Solid
Colour	White
Odour	Odourrless
Melting range	135 - 152 °C / 275 - 305.6 °F
Boiling point and boiling range	No Data Available
Flash Point	173.9 °C / 345 °F
pH	No information available
Evaporation rate	Not aplicable
Flammability (solid, gas)	No information available
Upper explosion limit	No data available
Lower explosion limit	No data available

Vapor pressure	No data available
Relative vapor density	No data available
Density	1.54 g/cm3 (20 °C)
Solubility in other solvents	Soluble in water
Partition coefficient: octanol	No data available
Autoignition temperature	345 °C / 653 °F
Decomposition	> 170°C
Viscosity, kinematic	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Molecular weight	210.14
Molecular Formula	C6 H8 O7 . H2 O

10. Stability and reactivity

Recativity	None known, based on information available
Stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Incompatible materials	Strong oxidizing agents, Strong bases.
Hazardous Decomposition	Carbon monoxide (CO), Carbon dioxide (CO2)
Condition to Avoid	Incompatible products. Excess heat. Temperatures above 170°C. Avoid dust formation.

11. Toxicological information

Route of Exposure	No data available.
Eyes	No data available.
Skin	No data available
Ingestion	No data available
Inhalation	No data available
Chronic Exposure	No data available
Acute oral toxicity	No data available
Acute inhalation toxicity	No data available
Acute dermal toxicity	No data available
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.
Adverse Effects	The toxicological properties have not been fully investigated.

12. Ecological information

Environmental Effects	No data available
Toxicity to fish	No data available
Toxicity to daphnia and others	No data available
Toxicity to algae	No data available
Biodegradability	No information available.
Persistence and degradability	Persistence is unlikely
Bioaccumulative potential	No data available
Mobility in soil	Will likely be mobile in the environment due to its water solubility.

13. Disposal considerations

Waste Disposal	Chemical waste generators must determine whether a discarded chemical is classifiedasahazardous waste. Chemical waste generators must also consult local, regional, andnational hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

UN Number	Not regulated
Proper shipping name	Not regulated
Transport hazard class(es) 8	
ADR/RID	-
Subsidiary risk IMDG	-
Subsidiary risk IATA	-
Packing group	
Packing group	-
Environmental hazards	
Environmental hazards	-
Marine pollutant	-
ADR/RID	
Hazard ID	-
Tunnel Category	-
IMDG	
EmS Code	-
IATA	
Packing Instruction (Cargo)	-
Maximum quantity	-
Packing Instruction (Passenger)	-
Maximum quantity	-

15. Regulatory information

Regulations	This product does not contain any Proposition 65 chemicals. This product does not contain any DHS chemicals.
Chemical safety assessment	No data available.
Further information	No data available.

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. DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.