1. Product and Company Identifaction

www.rxmarine.com

Porduct Name Tri SODIUM CITRATE DIHYDRATE

Part Number RXSOL-60-6066-025

Company Details:

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

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

Phone +91 22 20871200 - 1400

Fax +91 22 27612100 :::AOH :0091 9821214367

 Email
 mail@rxmarine.com

 Website
 www.rxmraine.com

2. Composition / Information on ingredients

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Product name Cas No EC No Weight Formula

tri-Sodium citrate dihydrate 6132-04-3 200-675-3 294,10 g/mol Na₃C₆H₅O₇ · 2H₂O

powder

3. Hazards Identification

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Signal Word No data available
Hazard Statements No data available
Precautionary statements No data available
Classification of the substance or mixture No data available
Supplemental Hazard Statements No data available

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

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General advice No data available

If inhaled fresh air.

Eye Contact rinse out with plenty of water. Remove contact lenses.

Swallowed After swallowing make victim drink water (two glasses at most). Consult

doctor if feeling unwell.

Skin Contact In case of skin contact Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

Inhalation No data available
Ingestion No data available

Most important symptoms and effects, both acute and delaye

The most important known symptoms and effects are described in the

labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment

needed

No data available

5. Fire-fighting Measures

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Flammability No data available

Suitable extinguishing media Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given

Special hazards arising from the substance or mixture Carbon oxides Sodium oxides Combustible. Development of hazardous

combustion gases or vapours possible in the event of fire.

Further information Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent

fire extinguishing water from contaminating surface water or the ground

water system.

Hazardous combustion No data available

products

Advice for firefighters In the event of fire, wear self-contained breathing apparatus.

Protective Equipment No data available
Specific Hazards Arising from the Chemical No data available

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate

the danger area, observe emergency procedures, consult an expert. For

personal protection see section 8.

Spillage No data available

Personal Protection No data available

Environmental Precaution Do not let product enter drains. Risk of explosion.

Methods and materials for Cover drains. Collect, bind, and pump off spills. Observe possible containment and cleaning material restrictions (see sections 7 and 10). Take up dry. Dispose of

properly. Clean up affected area. Avoid generation of dusts.

Reference to other sections For disposal see section 13.

7. Handling and Storage

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Advice on protection against fire and explosion No data available
Incompatible materials No data available
Hygiene measures No data available
Advice on safe handling No data available
Conditions for safe storage including any incompatibilities No data available

Storage conditions Tightly closed. Dry. Recommended storage temperature see product label

Storage class Storage class (TRGS 510) 11 Combustible Solids

Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are

stipulated

Advice on general occupational hygiene No data available

8. Exposure controls and personal protection

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Exposure controls Personal protective equipment

Engineering Control No data available

Eye/face protection Use equipment for eye protection tested and approved under appropriate

government standards such as NIOSH (US) or EN 166(EU). Safety

glasses

Body Protection Flame retardant antistatic protective clothing

Skin protection This recommendation applies only to the product stated in the safety data

sheet, supplied by us and for the designated use. When dissolving in or

mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material butyl-rubber Minimum layer thickness 0,7 mm Break through time 480 min Material tested:Butoject® (KCL 898) This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet www.kcl.de). Splash contact Material: Viton® Minimum layer thickness 0,7 mm Break through time: 120 min Material tested Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter typeFilter type AXThe entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented

No data available

No data available

Respiratory protection

Other Protection Measure

9. Physical and chemical properties

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Physical state Solid
Colour White

Odour No data available
Odor Threshold No data available

pH 7,5 - 9 at 29,4 g/l at 25 °C

Melting Point No data available **Boiling Point** No data available Flash Point No data available **Evaporation Rate** No data available Flammability (solid, gas) No data available Explosive limits No data Available Upper/lower flammability or explosive limits No data available Autoignition temperature No data available Decomposition temperature No data available No data available Vapour pressure No data available Viscosity No data available Density Relative Density No data available Specific Gravity No data available Partition coefficient No data available

Solubility 29,4 g/l at 20 °C - completely soluble

Ignition temperature No data available
Particle characteristics No data available

10. Stability and reactivity

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Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

Chemical stability

Explosive properties

The product is chemically stable under standard ambient conditions (room

temperature)

Possibility of hazardous reactions Violent reactions possible with Strong oxidizing agents

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

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Acute toxicity LD50 Oral - Mouse - male and female - 5.400 mg/kg (OECD Test

Guideline 401) Inhalation: No data available LD50 Dermal - Rat - male

and female - > 2.000 mg/kg (OECD Test Guideline 402)

Skin corrosion/irritation Skin - Rabbit No skin irritation - 4 h (OECD Test Guideline 404)

(anhydrous substance)

Serious eye damage/irritation Eyes - Rabbit No eye irritation - 72 h (OECD Test Guideline 405)

(anhydrous substance)

Respiratory or skin sensitization Maximization Test - Guinea pig negative (OECD Test Guideline 406)

(anhydrous substance)

Carcinogenicity No data available

Germ cell mutagenicity Test Type Ames test Test system: S. typhimurium Metabolic activation:

with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Micronucleus test Test system: Human lymphocytes Metabolic activation: without metabolic activation Method: OECD Test Guideline 487 Result: positive Test Type: dominant lethal test Species: Rat Application Route: Oral Method: Regulation (EC) No. 440/2008, Annex, B.22 Result: negative Test Type: Chromosome aberration test Species: Rat Cell type: Bone marrow Application Route:

Oral Method: OECD Test Guideline 475

Reproductive toxicity No data available
Specific target organ toxicity - single exposure No data available

Additional Information To the best of our knowledge, the chemical, physical, and toxicological

properties have not been thoroughly investigated.

12. Ecological information

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Persistence and degradability No data available

Toxicity to fish LC50 - Poecilia reticulata (guppy) - > 18.000 - 32.000 mg/l - 96 h

Remarks: (anhydrous substance) (IUCLID)

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 5.600 - 10.000 mg/l - 48 h

Remarks: (anhydrous substance) (IUCLID)

Toxicity No data available

Toxicity to bacteria No data available
Toxicity to algae No data available
Products Biodegradation 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.

Endocrine disrupting properties

The substance/mixture does not contain components considered to have

endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher

Other adverse effects No data available

13. Disposal considerations

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Product

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further

questions

Contaminated packaging
Waste treatment Method

No data available No data available

14. Transport information

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UN number ADR/RID: IMDG: IATA:

UN proper shipping name ADR/RID:Not dengerous goods IMDG: Not dengerous goods IATA:Not dengerous goods

Transport hazard class(es)ADR/RID:IMDG:IATA:Packaging groupADR/RID:IMDG:IATA:Environmental hazardsADR/RID:NoIMDG:NoIATA:No

Special precautions for user No data available Further information No data available

15. Regulatory information

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Safety, health and environmental regulations/legislation specific for the This material safety data sheet complies with the requirements of substance or mixture

Regulation (EC) No. 1907/2006.

Other regulations No data available

Chemical Safety Assessment was not carried out for this substance.

16. Other information

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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 weassume 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.

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