



RXSOL

CHEMO PHARMA INTERNATIONAL

RXSOL-19-1589-025
L ASCORBIC ACID

Material Safety Data Sheet (MSDS)

1. Product and Company Identification

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| Product Name | L ASCORBIC ACID |
| Part Number | RXSOL-19-1589-025 |

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

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|---------|--|
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| Email | mail@rxmarine.com |
| Website | www.rxmarine.com |

2. Composition / Information on ingredients

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Substances

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| Formula | $C_6H_8O_6$ |
| Molecular weight | 176,12 g/mol |
| CAS-No | 50-81-7 |
| EC-No. | 200-066-2 |

No components need to be disclosed according to the applicable regulations.

3. Hazards Identification

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| Classification of the substance or mixture | Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. |
| Label elements | No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required |

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| Other hazards | <p>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.</p> <p>Ecological information: 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.</p> <p>Toxicological information: 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.</p> <p>May form explosible dust-air mixture if dispersed.</p> |
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4. First Aid Measures

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Description of first aid measures

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| If inhaled | After inhalation: fresh air. |
| In case of skin contact | In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. |
| In case of eye contact | After eye contact: rinse out with plenty of water. Remove contact lenses. |
| If swallowed | After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell. |
| Most important symptoms and effects, both acute and delayed | 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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Extinguishing media

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| Suitable extinguishing media | Water Foam Carbon dioxide (CO ₂) 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 Combustible. Risk of dust explosion. Development of hazardous combustion gases or vapours possible in the event of fire. |
| Advice for firefighters | In the event of fire, wear self-contained breathing apparatus. |
| Further information | Prevent fire extinguishing water from contaminating surface water or the ground water system. |

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. |
| Environmental precautions | Do not let product enter drains. |
| Methods and materials for containment and cleaning up | Cover drains. Collect, bind, and pump off spills. Observe possible 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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| Precautions for safe handling | |
| Advice on protection against fire and explosion | Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. |
| Hygiene measures | Change contaminated clothing. Wash hands after working with substance. For precautions see section 2.2. |
| Conditions for safe storage, including any incompatibilities | |
| Storage conditions | Tightly closed. Dry. Recommended storage temperature see product label. |
| Storage stability | Recommended storage temperature 2 - 8 °C |
| 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 |

8. Exposure controls and personal protection

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Control parameters

Personal protective equipment

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| 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 |
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| Skin protection | <p>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).</p> <p>Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L</p> <p>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).</p> <p>Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L</p> |
| Body Protection | Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., 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 is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). |
| Control of environmental exposure | No special environmental precautions required. |

9. Physical and chemical properties

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Information on basic physical and chemical properties

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| Physical state | Solid |
| Color | White |
| Odor | No data available |
| Melting point/freezing point | Melting point: 193 °C |
| Initial boiling point and boiling range | No data available |
| Flammability (solid, gas) | No data available |
| Upper/lower flammability or explosive limits | No data available |
| Flash point | Not applicable |
| Autoignition temperature | No data available |
| Decomposition temperature | No data available |
| pH | No data available |
| Viscosity | Viscosity, kinematic: No data available Viscosity, dynamic: No data available |
| Water solubility | No data available |

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| Partition coefficient: n-octanol/water | No data available |
| Vapor pressure | No data available |
| Density | 1,65 g/cm ³ at 20 °C |
| Relative density | No data available |
| Relative vapor density | No data available |
| Particle characteristics | No data available |
| Explosive properties | No data available |
| Oxidizing properties | No data available |
| Other safety information | |
| Bulk density | ca.500 - 900 kg/m ³ |

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 | The product is chemically stable under standard ambient conditions (room temperature) |
| Possibility of hazardous reactions | Violent reactions possible with: Aluminum Copper alloys Zinc metal ions Oxidizing agents Copper Acids bases |
| Conditions to avoid | No information available |
| Incompatible materials | No data available |
| Hazardous decomposition products | In the event of fire: see section 5 |

11. Toxicological information

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Information on toxicological effects

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| Acute toxicity | LD50 Oral - Rat - 11.900 mg/kg Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Lacrimation. Behavioral:Somnolence (general depressed activity). Diarrhea (RTECS) Inhalation: No data available Dermal: No data available |
| Skin corrosion/irritation | Skin - Rabbit Result: No skin irritation (OECD Test Guideline 404) |

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| Serious eye damage/eye irritation | Eyes - Rabbit Result: slight irritation (OECD Test Guideline 405) |
| Respiratory or skin sensitization | No data available |
| Germ cell mutagenicity | No data available |
| Carcinogenicity | No data available |
| Reproductive toxicity | No data available |
| Specific target organ toxicity - single exposure | No data available |
| Specific target organ toxicity - repeated exposure | No data available |
| Aspiration hazard | No data available |
| Additional Information | 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. Chronic ingestion of large doses may cause gastrointestinal disturbances including nausea and diarrhea, urinary effects involving urine acidification, oxalate and uric crystallization in the bladder and kidney, and decreased reaction times and psychomotor coordination. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. |

12. Ecological information

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| Toxicity | |
| Toxicity to fish | LC50 - <i>Leuciscus idus</i> (Golden orfe) - > 10.000 mg/l - 96 h (DIN 38412) |
| Toxicity to daphnia and other aquatic invertebrates | EC50 - <i>Daphnia</i> - > 580 mg/l - 48 h (DIN 38412) |
| Toxicity to bacteria | EC50 - <i>Pseudomonas putida</i> - > 10.000 mg/l - 17 h (DIN 38421 TEIL 8) |
| Toxicity to algae | IC50 - algae - > 500 mg/l - 72 h (DIN 38412) |
| Persistence and degradability | |
| Biodegradability | Result: > 60 % - Readily biodegradable. (OECD Test Guideline 301C) |
| Biochemical Oxygen Demand (BOD) | 20 mg/g Remarks: (External MSDS) |
| Chemical Oxygen Demand (COD) | 1.070 mg/g Remarks: (External MSDS) |
| 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. |
| Endocrine disrupting properties | No data available |
| Other adverse effects | |

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| Additional ecological information | Discharge into the environment must be avoided. |
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13. Disposal considerations

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| Waste treatment Method | No data available |
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14. Transport information

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| UN number | ADR/RID: IMDG: IATA: |
| UN proper shipping name | ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods |
| Transport hazard class(es) | ADR/RID: IMDG: IATA: |
| Packaging group | ADR/RID: IMDG: IATA: |
| Environmental hazards | ADR/RID: no IMDG Marine pollutant: no IATA: no |
| Special precautions for user | No data available |
| Further information | Not classified as dangerous in the meaning of transport regulations. |

15. Regulatory information

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| 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

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| Other Information | <p>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 we 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.</p> <p>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.</p> |
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