

1. Product and Company Identification

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Product Name Acidic CIP BallastGuard

Part Number RXSOL-23-6830-025

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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| Component | Concentration (%) | CAS Number |
|---|-------------------|-------------|
| Citric Acid | 20-30% | 77-92-9 |
| Phosphoric Acid | 5-10% | 7664-38-2 |
| Organic Acids | 5-15% | Proprietary |
| Phosphonic Acids blend | 5-10% | Proprietary |
| Surface Active Agents for enhanced cleaning | 1-2% | Proprietary |

This is a proprietary mixture product with no other hazardous ingredients.

3. Hazards Identification

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Signal Word

Warning

Hazard Statements

H319 Causes serious eye irritation

H335 May cause respiratory irritation

Precautionary Statements

Precautionary statements - prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P280 Wear eye protection/face protection

Precautionary statements - response

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P312 Call a POISON CENTER or doctor/physician if you feel unwell

Precautionary statements - storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed

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| Supplemental Hazard Statements | None |
| Other hazards | Results of PBT and vPvB assessment |
| | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |

4. First Aid Measures

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| General notes | Take off contaminated clothing. |
| Following inhalation | Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice. |
| Following skin contact | Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice. |
| Following eye contact | Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice. |
| Following ingestion | Rinse mouth. Call a doctor if you feel unwell. |
| Most important symptoms and effects, both acute and delayed | Irritation, Cough, Dyspnoea |
| Indication of any immediate medical attention and special treatment needed | None |

5. Fire-fighting Measures

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| Suitable extinguishing media | Co-ordinate firefighting measures to the fire surroundings |
| Unsuitable extinguishing media | water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO?) |
| Special hazards arising from the substance or mixture | Water jet |
| Hazardous combustion products | Ingredients of the mixture combustible. The product itself does not burn. Carbon monoxide (CO), Carbon dioxide (CO?) |
| Advice for firefighters | In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. |

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures

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| For non-emergency personnel | Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray. |
| Environmental precautions | Keep away from drains, surface and ground water. The product is an acid. Before discharge into sewage plants the product normally needs to be neutralised. |
| Methods and material for containment and cleaning up | Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). |
| Advice on how to contain a spill | Place in appropriate containers for disposal. |
| Other information relating to spills and releases | Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13. |
| Reference to other sections | |

7. Handling and Storage

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| Precautions for safe handling | Provision of sufficient ventilation. |
| Advice on general occupational hygiene | Wash hands before breaks and after work. Keep away from food, drink |

Conditions for safe storage, including any incompatibilities
Incompatible substances or mixtures
Consideration of other advice:
Specific designs for storage rooms or vessels
Specific end use(s)

and animal feedingstuffs.
Keep container tightly closed.
Observe hints for combined storage
Recommended storage temperature: 15?25 °C
No information available.

8. Exposure controls and personal protection

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Eye/face protection
Skin protection

Use safety goggle with side protection.

Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from

measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

Type of material

NBR (Nitrile rubber)

Material thickness

0,11 mm

Breakthrough times of the glove material

480 minutes (permeation: level 6)

Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection

Respiratory protection necessary at: Aerosol or mist formation. Type: ABEK (combined filters against gases and vapours, colour code: Brown/Grey/Yellow/Green).

Environmental exposure controls

Keep away from drains, surface and ground water.

9. Physical and chemical properties

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Physical state
Color
Odor
Melting point/freezing point
Boiling point or initial boiling point and boiling range
Flammability

Liquid
Colorless
Odorless
Not determined
~100 °C at 1,013 hPa
Non-combustible

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| Lower and upper explosion limit | Not determined |
| Flash point | Not determined |
| Autoignition temperature | Not determined |
| Decomposition temperature | Not relevant |
| pH (value) | 1?-?2 (20 °C) |
| Kinematic viscosity | Not determined |
| Water solubility | Miscible in any proportion |
| Partition coefficient n-octanol/water (log value) | This information is not available |
| Vapour pressure | 23 hPa at 20 °C |
| Density | 1.24 g /cm ³ at 20 °C |
| Relative vapor density | Information on this property is not available |
| Particle characteristics | Not relevant (liquid) |
| Oxidising properties | None |
| Other information | |
| Information with regard to physical hazard classes | Hazard classes acc. to GHS (physical hazards): not relevant |
| Other safety characteristics | |
| Miscibility | Completely miscible with water |

10. Stability and reactivity

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| Reactivity | This material is not reactive under normal ambient conditions. |
| Chemical stability | The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. |
| Possibility of hazardous reactions | Violent reaction with: strong oxidiser, Reducing agents, Metals, Bases |
| Conditions to avoid | There are no specific conditions known which have to be avoided. |
| Incompatible materials | Different metals |
| Hazardous decomposition products | Hazardous combustion products: see section 5. |

11. Toxicological information

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| Information on toxicological effects | Test data are not available for the complete mixture. |
| Classification procedure | The method for classification of the mixture is based on ingredients of the mixture (additivity formula). |
| Acute toxicity | Shall not be classified as acutely toxic. |
| Skin corrosion/irritation | Shall not be classified as corrosive/irritant to skin |
| Serious eye damage/eye irritation | Causes serious eye irritation. |
| Respiratory or skin sensitisation | Shall not be classified as a respiratory or skin sensitiser. |
| Germ cell mutagenicity | Shall not be classified as germ cell mutagenic |
| Carcinogenicity | Shall not be classified as carcinogenic. |
| Reproductive toxicity | Shall not be classified as a reproductive toxicant |
| Specific target organ toxicity - single exposure | May cause respiratory irritation. |
| Specific target organ toxicity - repeated exposure | Shall not be classified as a specific target organ toxicant (repeated exposure). |
| Aspiration hazard | Shall not be classified as presenting an aspiration hazard. |
| Symptoms related to the physical, chemical and toxicological characteristics | |
| If swallowed | Data are not available. |
| If in eyes | Causes serious eye irritation |
| If inhaled | Irritation to respiratory tract, cough, Dyspnoea |
| If on skin | irritant effects, pruritis, localised redness |

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| Other information | None |
| Endocrine disrupting properties | None of the ingredients are listed. |

12. Ecological information

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| Toxicity | Shall not be classified as hazardous to the aquatic environment. |
| Biodegradation | Data are not available. |
| Bioaccumulative potential | Data are not available. |
| Mobility in soil | Data are not available. |
| Results of PBT and vPvB assessment | Data are not available. |
| Endocrine disrupting properties | Data are not available. |
| Other adverse effects | Data are not available. |

13. Disposal considerations

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| Waste Treatment Methods | This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Sewage disposal-relevant information | Do not empty into drains. |
| Remarks | Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. |

14. Transport information

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| UN number | Not subject to transport regulations |
| UN proper shipping name | Not assigned |
| Transport hazard class(es) | Not assigned |
| Packaging group | Not assigned |
| Environmental hazards | Non-environmentally hazardous acc. to the dangerous goods regulations |
| Special precautions for user | There is no additional information. |
| Transport in bulk according to IMO instruments | The cargo is not intended to be carried in bulk. |
| Information for each of the UN Model Regulations | |
| Transport information National regulations Additional information (UN RTDG) | Not subject to transport regulations. UN RTDG |
| International Maritime Dangerous Goods Code (IMDG) - Additional information | Not subject to IMDG. |
| International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information | Not subject to ICAO-IATA. |

15. Regulatory information

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| Safety, health and environmental regulations/legislation specific for the substance or mixture | There is no additional information. |
| Australian Inventory of Chemical Substances (AICS) | All ingredients are listed or exempt from listing. |
| Other information | Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. |
| Chemical Safety Assessment | Chemical safety assessments for substances in this mixture were not carried out. |

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 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.

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