

1. Product and Company Identification

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Product Name Heavy Duty Acidic CIP Detergent Descaler
Part Number RXSOL-68-6830-025

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Component	Concentration (%)	CAS Number
Nitric Acid	20-30%	7697-37-2
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

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

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

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

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

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