

1. Product and Company Identification

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Product Name RXSOL-60-6605-201
Product Type PERCHLORIC ACID 70% AR
Revised date

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Substance / Preparation : Preparation.

Substance name Contents CAS No

Perchloric Acid : 70% 7601-90-3

3. Hazards Identification

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3.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : O; R8

R5

C; R35

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Skin corrosion - Category 1A - Danger (CLP : Skin Corr. 1A) H314

Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318

Physical hazards : Oxidizing liquids - Category 1 - Danger (CLP : Ox. Liq. 1) H271

3.2. Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s) : O : Oxidizing

C : Corrosive

R Phrase(s) : R5 : Heating may cause an explosion.

R8 : Contact with combustible material may cause fire

R35 : Causes severe burns.

S Phrase(s) : S1/2 : Keep locked up and out of reach of children.

S23 : Do not breathe the gas, fumes, vapours, spray.

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 : Wear suitable protective clothing and gloves & eye/face protecting.

S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms

Signal words : Danger

Hazard statements : H271 : May cause fire or explosion; strong oxidizer.

H314 : Causes severe skin burns and eye damage. Precautionary statements

☒ General : P102: Keep out of reach of children.

P103: Read label before use.

P101: If medical advice is needed, have product container or label at hand.

☒ Prevention : P210: Keep away from heat, sparks, open flames or hot surfaces. ☒ No smoking.

P280: Wear protective gloves, protective clothing, eye protection, face protection.

P260: Do not breathe dust, fume, gas, mist, vapours, spray.

P220: Keep away from clothing - combustible materials.

P264: Wash thoroughly after handling.

☒ Response : P371+P380+P375: In case of major fire and large quantities : Evacuate area.

Fight

fire remotely due to the risk of explosion.

P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.

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

Remove contact lenses, if present and easy to do. Continue rinsing.

P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.

P306+P360: IF ON CLOTHING : Rinse immediately contaminated clothing and skin

with plenty of water before removing clothes.

P363: Wash contaminated clothing before reuse.

P370+P378: In case of fire: Use for extinction.

☒ Storage : P405: Store locked up.

☒ Disposal considerations : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

3.3. Other hazard

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

4. First Aid Measures

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4.1. Description of first aid measures

Inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor.

Skin contact : IF ON CLOTHING :

Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Wash with plenty of soap and water. Remove/Take off

immediately all contaminated clothing. Immediately call a POISON CENTER or doctor.

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Ingestion : Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms relating to use : Causes severe skin burns and eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting Measures

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5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Surrounding fires : Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

Flammable class : May cause fire or explosion; strong oxidizer.

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

Thermal decomposition generates : Corrosive vapours.

5.3. Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment,

including respiratory protection.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment. In case of major fire and large quantities Evacuate area. Fight fire remotely due to the risk of explosion.

6. Accidental Release Measures

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6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders : Equip cleanup crew with proper protection.

Ventilate area.

Special precautions : No naked lights. No smoking. May cause fire or explosion; strong oxidizer.

For non-emergency personnel : Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Clean up methods : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7.1. Precautions for safe handling

Handling : Take any precaution to avoid mixing with combustibles. Do not breathe dust, fume, gas, mist, vapours, spray. Avoid contact during pregnancy or while nursing. Wash thoroughly after handling.

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

Keep in fireproof place. Storage regulation : Comply with applicable regulations.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

Heat sources. Combustible material.

7.3. Specific end use(s)

) Specific end use(s) : None.

8. Exposure controls and personal protection

8.1. Exposure controls

Personal protection : Avoid all unnecessary exposure.

☑ Respiratory protection : Wear approved mask.

☑ Hand protection : Wear protective gloves.

☑ Skin protection : Wear suitable protective clothing.

☑ Eye protection : Chemical goggles or face shield.

☑ Others : When using, do not eat, drink or smoke.

Wear fire, flame resistant, retardant clothing.

8.2. Control parameters

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Liquid.

Odour threshold : No data available.

pH value : No data available

. Melting point [°C] : No data available.

Decomposition point [°C] : No data available.

Critical temperature [°C] : No data available

. Auto-ignition temperature [°C] : No data available.

Flammability (solid, gas) : No data available.

Flash point [°C] : No data available.

Initial boiling point [°C] : No data available.

Final boiling point [°C] : No data available.

Evaporation rate : No data available

. Vapour pressure [20°C] : No data available.

Vapour density : No data available.

Density [g/cm³] : No data available.

Relative density, liquid (water=1) : No data available.

Solubility in water : No data available.

Log Pow octanol / water at 20°C : No data available.

Viscosity at 40°C [mm²/s] : No data available.

9.2. Other information

Explosive properties : No data available.

Explosion limits - upper [%] : No data available.

Explosion limits - lower [%] : No data available.

Oxidising properties : May cause fire or explosion; strong oxidizer.

10. Stability and reactivity

10.1. Reactivity

Reactivity : Not established.

10.2. Chemical stability

Chemical stability : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Not established.

10.4. Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures. Heat. Sparks.

Overheating. Open flame.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

Thermal decomposition generates : Corrosive vapours.

11. Toxicological information

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11.1. Information on toxicological effects

Toxicity information : The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

Acute toxicity

Inhalation : Based on available data, the classification criteria are not met.

Dermal : Based on available data, the classification criteria are not met.

Ingestion : Based on available data, the classification criteria are not met

. Corrosion : Causes severe skin burns and eye damage.

Causes serious eye damage.

Irritation : Based on available data, the classification criteria are not met.

Sensitization : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Toxic for reproduction : Based on available data, the classification criteria are not met.

STOT-single exposure : Based on available data, the classification criteria are not met.

STOT-repeated exposure : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met

12. Ecological information

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12.1. Toxicity

Toxicity information : The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

13. Disposal considerations

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13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Hazardous waste due to potential risk of explosion. Dispose of this material and its container to hazardous or special waste collection point, in accordance with

local, regional, national and/or international regulation.

14. Transport information

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14.1. Land transport (ADR-RID)

Proper shipping name : PERCHLORIC ACID with more than 50% but not more than

72% acid, by mass

UN N° : 1873

H.I. nr : 558

ADR - Class : 5.1

Labelling - Transport : 5.1 : Oxidizing substances. 8 : Corrosive substance.

ADR - Classification code : OC1

ADR - Group : I

ADR - Packing instructions : P502

ADR - Limited Quantity : 0

ADR - Tunnel code : B/E : Tank carriage: Passage forbidden through tunnels of category

B, C, D y E. Other carriage: Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

Proper shipping name : PERCHLORIC ACID with more than 50% but not more than

72% acid, by mass

UN N° : 1873

IMO-IMDG - Class or division : 5.1 : Oxidizing substances. (8 : Corrosive substance.)

IMO-IMDG - Packing group : I

IMO- IMDG - Packing instructions : P502

IMO-IMDG - Limited quantities : None

IMO-IMDG - Marine pollution : No

EMS-Nr : F-A S-Q

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name : PERCHLORIC ACID with more than 50% but not more than

72% acid, by mass

UN N° : 1873

IATA - Class or division : 5.1 : Oxidizing substances. (8 : Corrosive substance.)

IATA - Packing group : I

IATA - Passenger and Cargo Aircraft : NOT ALLOWED

IATA - Cargo only : ALLOWED

- Cargo only - Packing instruction : 553

- Cargo only - Maximum Quantity/ : 2.5 L

Packing ERG-Nr : 5C

15. Regulatory information

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Safety, health and environmental. Ensure all national/local regulations are observed. regulations/legislation specific for the substance or mixture

REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment Chemical Safety Assessment : It has not been carried out.

16. Other information

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Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN

PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification,

labelling and packaging of substances and mixtures, amending and repealing Directives

67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Further information : None.n accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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