

1. Product and Company Identification

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Product Name Orthophosphoric Acid 20% Solution
Product Type RXSOL-60-6219-002

Company Details:
RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Phosphoric Acid85% w/w	CAS 7664-38-2	12 -15%	V/V	TWA 1 mg/m3 STEL 3 mg/m3
Water Deionized ASTM Type II	CAS 7732-18-5	Balance	V/V	Not Established

3. Hazards Identification

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Causes severe irritation and burns. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

Emergency Overview:	Danger! Corrosive. Causes severe irritation and burns to every area of contact. Harmful if swallowed or inhaled.
Inhalation:	Inhalation is not an expected hazard unless misted or heated to high Temperatures. Mist or vapor inhalation can cause irritation to the nose, throat, and upper respiratory tract. Severe exposures can lead to a chemical pneumonitis.
Ingestion:	Corrosive! May cause sore throat, abdominal pain, nausea, and severe burns of The mouth, throat, and stomach. Severe exposures can lead to shock, circulatory collapse, and death.
Skin:	Can cause redness, pain, and severe skin burns
Eye Contact:	Corrosive! May cause redness, pain, blurred vision, eye burns, and permanent eye damage.
Chronic Exposure:	No information found.
Aggravated by Exposure:	Persons with pre-existing skin disorders or eye problems, or impaired respiratory function may be more susceptible to the effects of the substance.

4. First Aid Measures

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Causes severe irritation and burns. May Be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

SKIN:	Remove contaminated clothing. Wash exposed area with soap and water. if irritation persists, seek medical attention.
EYES:	Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid.
INHALATION:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen
INGESTION:	Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

5. Fire-fighting Measures

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Fire Extinguisher Type:
Fire/Explosion Hazards:
Firefighting Procedure:

Water spray, dry chemical, carbon dioxide, alcohol foam
Thermal decomposition produces highly toxic fumes.
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

6. Accidental Release Measures

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Absorb spill with inert material, then place in a chemical waste container. Dispose of in a manner consistent with federal, local law.
Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Neutralize with alkaline material (soda-ash, lime), then absorb with an inert material (e.g., Vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! US regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities.

7. Handling and Storage

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Store in a cool dry well-ventilated area.
Keep away from heat and flame.
Do not get in eyes, on skin, or on clothing.

8. Exposure controls and personal protection

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Respiratory protection
Ventilation

None required
Local Exhaust
Mechanical

Protective gloves
Eye protection
Other protective equipment

Wear appropriate gloves to prevent skin exposure
Splash Goggles
Wear appropriate clothing to prevent skin exposure.

9. Physical and chemical properties

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Melting Point	21°C
Boiling Point	128°C
Vapor Pressure	0.3 @ 20°C
Vapor Density	3.4
Solubility In Water	Miscible proportions of water
Appearance/Odors	Colorless syrupy liquid / odorless
Flash Point	Information not available
Percent Volatile By Volume	100% @ 21°C
Evaporation Rate	Information not available
Evaporation Standard	
Auto Ignition Temp	Information not available
Lower Flamm. Limit In Air	Information not available
Upper Flamm. Limit In Air	Information not available
Specific Gravity	1.69

10. Stability and reactivity

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Stability
Conditions to Avoid
Materials to Avoid
Hazardous Decomposition Products
Hazardous Polymerization
Conditions to Avoid

Stable
Avoid contact with incompatible materials.
Metals, bases
Oxides of carbon
Will not occur
None known

11. Toxicological information

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Carcinogenic References: NTP Carcinogen - Known: No, IARC Category- 3

12. Ecological information

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Environmental Fate:

When released into the soil, this material may leach into groundwater.
When released to water, acidity may be readily reduced by natural water hardness minerals.

Environmental Toxicity:

No information found

13. Disposal considerations

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Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. If you're State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport information

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DOT Classification:

Phosphoric Acid, 8, UN1805, PG III

DOT regulations may change from time to time. Please consult the most recent DOT regulations.

15. Regulatory information

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Chemical Inventory Status ☐

Part 1:Ingredient

Phosphoric Acid (7664-38-2)

TSCA	Yes
EC	Yes
Japan	Yes
Australia	Yes

Chemical Inventory Status

Part 2:Ingredient

Phosphoric Acid (7664-38-2)

Korea	Yes
DSL	Yes
NDSL	No
Phil.	Yes

Federal, State & International Regulations ☐

Part 1: Ingredient

Phosphoric Acid (7664-38-2)

RQ	No
TPQ	No
List	No
Chemical Catg	No

Federal, State & International Regulations ☐

Part 2:Ingredient

Phosphoric Acid (7664-38-2)

CERCLA	5000
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261.33	No
8(d)	No
Chemical Weapons Convention	No
TSCA 12 (b)	No
CDTA	No Pure/Liquid
SARA 311/312 : Acute	No
Chronic	No
Fire	No
Pressure	No
Reactivity	No
Australian Hazchem Code	2R
Poison Schedule	S5

16. Other information

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The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents. The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties. The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications; usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.

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