

1. Product and Company Identification

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Product Name Ammonium Persulfate Pwd
Part Number RXSOL-60-6216-025

Company Details:
RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
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2. Composition / Information on ingredients

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| Name of Substance | Cas Number | EC Number | Wight % |
|---------------------|------------|-----------|---------|
| Ammonium Persulfate | 7727-54-0 | 231-786-5 | 100% |

3. Hazards Identification

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|---------------------------------------|---|
| Signal Word | Danger |
| Hazard Statements | H272 May intensify fire; oxidizer. H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. |
| Precautionary statements - prevention | P280 Wear protective gloves. |
| Precautionary statements - response | P302 + P352 IF ON SKIN: Wash with plenty of soap and water. 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. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician |

4. First Aid Measures

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| Eye Contact | Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention. |
| Skin Contact | In case of contact, immediately flushes skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover |

Inhalation:

the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Ingestion:

Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.

Notes to Physician

Do not induce vomiting. Obtain medical attention. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain an open airway and prevent aspiration.

Treat symptomatically

5. Fire-fighting Measures

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Flammability

May be combustible at high temperature.

Flash Point

CLOSED CUP: Higher than 93.3°C (200°F).

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Hazardous combustion products

Fire may cause the evolution of Sulphur oxides, nitrogen oxides.

Protective Equipment

Use personal protective equipment.

Specific Hazards Arising from the Chemical

Has a fire-promoting effect due to the release of oxygen. Ambient fire may liberate hazardous vapours.

6. Accidental Release Measures

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Spillage

Oxidizing material. Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas dike if needed. Eliminate all ignition sources. Call for assistance on disposal.

Personal Protection

Advice for non-emergency personnel: Avoid inhalation of dust. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: Protective equipment see section 8.

Environmental Precaution

Do not let product enter drains.

Methods and materials for containment and cleaning

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 the affected area. Avoid generation of dust

7. Handling and Storage

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Handling

Keep away from heat. Keep away from sources of ignition. Keep away from combustible material. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as reducing agents, combustible materials, organic materials, metals

Storage

Strong Oxidizer. Moisture Sensitive. Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from acids, alkalies, reducing agents and combustibles. See NFPA 43A, Code for the Storage of Liquid and Solid Oxidizers. Do not store above 23°C (73.4°F).

8. Exposure controls and personal protection

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Engineering Control

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

Eye/face Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure. Respiratory Protection : Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator exposure limits are exceeded or if irritation or other symptoms are experienced.

Other Protection Measure

Handle in accordance with good industrial hygiene and safety practice.

Exposure Limit

Not Available



Gloves Suit

9. Physical and chemical properties

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Form

Solid

Colour

White

Odour

Odourless

Odor Threshold

Not Applicable

pH

3.2 - 3.5 at 100 g/l 20 °C

Melting Point

120 °C (decomposition)

Boiling Point

Not Applicable

Flash Point

Not Applicable

Evaporation Rate

Not Applicable

Flammability (solid, gas)

No Data Available

Explosive limits

No Data Available

Vapour pressure

No Data Available

Vapour Density

No Data Available

Specific Gravity

1.98 g/cm³ at 20 °C

Partition coefficient

No data available

Explosive properties

None

Solubility

Soluble in water 620 g/l at 20 °C

Ignition temperature

No information available.

10. Stability and reactivity

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|------------------------------------|---|
| Reactivity | Forms explosive mixtures with air on intense heating. |
| Stability | Product is stable. |
| Possibility of hazardous reactions | Violent reactions possible with: Amines, Strong oxidizing agents Violent polymerisation may be caused by: Strong bases, Strong acids |
| Conditions to avoid | Strong Heating |
| Incompatible materials | Aluminium, various metals, Mild steel |
| Hazardous Polymerization | Hazardous polymerization does not occur. |

11. Toxicological information

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| Rout Of Entry | Absorbed through skin. Eye contact. Inhalation. Ingestion. |
| Toxicity to Animal | WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 100 mg/kg [Mouse]. Acute dermal toxicity (LD50): >2500 mg/kg [Rat]. Acute toxicity of the vapor (LC50): 480 mg/m 4 hours [Rat]. 3 |
| Toxic Effects on Humans | CARCINOGENIC EFFECTS: Classified A4 (Not classifiable for human or animal.) by ACGIH [Glutaraldehyde]. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. [Glutaraldehyde]. Mutagenic for bacteria and/or yeast. [Glutaraldehyde]. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [SUSPECTED] [Glutaraldehyde]. Contains material which may cause damage to the following organs: blood, the reproductive system, liver, mucous membranes, spleen, central nervous system (CNS), Urinary system. |
| Special Remarks on other Toxic Effects on Humans: | Potential Health Effects: Eye: Causes severe eye irritation. May cause eye injury or chemical conjunctivitis. Skin: Causes moderate to severe skin irritation. It may be absorbed through the skin, although poorly. May cause allergic contact dermatitis with itching and skin rash. May cause staining of the skin and nails to a brown or golden brown color. Ingestion: Harmful if swallowed. May cause severe irritation of the digestive tract with burning sensation in the chest, abdominal pain, cramping, vomiting, diarrhoea (perhaps bloody diarrhoea), vascular collapse, and coma. May also affect liver (increased liver enzymes, liver damage), spleen, blood (normocytic anemia), metabolism (weight loss), behavior (somnolence, excitement, dizziness, lethargy, ataxia, seizures), metabolism (weight loss), urinary system (abnormal renal function, anuria) Inhalation: Harmful if inhaled. Can cause respiratory tract irritation and sudden headaches. |

12. Ecological information

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|------------------------------------|--|
| Eco Toxicity | Not Available |
| COD and BOD 5 | Not Available |
| Products of Biodegradation: | No Information available |
| Mobility in soil | No Information available |
| Results of PBT and vPvB assessment | Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not conducted.. |
| Other adverse effects | Discharge into the environment must be avoided. |

13. Disposal considerations

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14. Transport information

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DOT

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|----------------------|----------------------|
| UN Number | UN1444 |
| Proper shipping name | AMMONIUM PERSULPHATE |
| Hazard Class | 5.1 |
| Packing group | III |

TDG

| | |
|----------------------|----------------------|
| UN Number | UN1444 |
| Proper shipping name | AMMONIUM PERSULPHATE |
| Hazard Class | 5.1 |
| Packing group | III |

IATA

| | |
|----------------------|----------------------|
| UN Number | UN1444 |
| Proper shipping name | AMMONIUM PERSULPHATE |
| Hazard Class | 5.1 |
| Packing group | III |

IMDG/IMO

| | |
|----------------------|----------------------|
| UN Number | UN1444 |
| Proper shipping name | AMMONIUM PERSULPHATE |
| Hazard Class | 5.1 |
| Packing group | III |

15. Regulatory information

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16. Other information

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Other Information

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