

1. Product and Company Identification

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Product Name Sodium Permanganate
Part Number RXSOL-60-6109-026

Company Details:

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

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Chemical Name	Cas No	Wt%	Exposure Guidelines (TWA Ceiling)
Sodium Permanganate	10101-50-5	20	5.0 mg/m ³ Mn OSHA 0.2 mg/m ³ Mn ACGIH

3. Hazards Identification

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DANGER! Very powerful oxidizer, explosive in contact with sulfuric acid or peroxides. May react violently with readily oxidizable materials. May ignite wood and cloth. Corrosive to eyes on contact. May cause severe burns. Do not ingest, avoid inhalation of vapors. May be harmful if swallowed or absorbed through skin.

HMIS Rating

Health 2 Fire 1 Reactivity - 2.

TARGET ORGANS

Eyes, skin, mucous membranes of the nose, throat, and lungs

ROUTES OF ENTRY INTO BODY

Inhalation, ingestion, skin absorption, skin or eye Contact

SIGNS AND SYMPTOMS OF EXPOSURE

Damaging to eye tissue, may cause irreversible permanent injury to eyes, may cause irritation or on prolonged contact damage skin. Harmful if swallowed or inhaled. May burn mucous membranes. Aspiration may cause irritation or lung damage.

4. First Aid Measures

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EYE CONTACT

If material gets into the eyes, flush the eyes with large amounts of water for at least 30 minutes, lifting the lower and upper lids occasionally. Get medical attention immediately, preferably from an ophthalmologist. DO NOT attempt to neutralize chemically. Decomposition products are alkaline. Contact lenses should not be worn when working with this substance or any other chemical. If contact lenses were worn, remove from the eye after the first 5 minutes of flushing.

SKIN CONTACT

Skin that becomes contaminated should be washed or showered for 30

INHALATION

minutes with soap and water to remove any chemical from skin. Get medical attention if irritation is severe and persistent. CAUTION: solution may ignite certain textiles. Contaminated clothing should be removed and laundered. Clothing that cannot be decontaminated, like leather boots, should be disposed of properly.

If a person breathes in large amounts of product mist, move the person to fresh air. If

INGESTION

breathing has stopped, perform artificial respiration. Keep the affected person warm and at rest. Get medical attention as soon as is possible.

If a person swallows this product, give large quantities of water. Get medical attention

immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person.

5. Fire-fighting Measures

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EXTINGUISHING MEDIA

Use water to flood fire exposed containers. Cool affected containers with large quantities of water from as far away as possible

FIRE FIGHTING EQUIPMENT

Wear NIOSH/MSHA approved, pressure-demand self-contained breathing apparatus and full protective gear including boots, protective gloves, and gas-tight goggles. Regular Fire Fighter's gear is inadequate

GENERAL HAZARD

Keep upwind. Avoid breathing dust, vapors, and fumes from this material. Avoid bodily contact with the material. Containers can build pressure if exposed to heat. Keep material out of water sources and sewers. Once AS-5420 becomes a waste, it is considered a D001 hazardous (ignitable) waste, See Section 6.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Do not allow material to come into contact with acids, peroxides, formaldehyde, antifreeze, hydraulic fluids, combustible materials, organic materials, or easily oxidizable metal powders

HAZARDOUS COMBUSTION PRODUCTS

Contact with hydrochloric acid may cause toxic chlorine gas to be liberated

6. Accidental Release Measures

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Persons not wearing protective equipment and clothing should be restricted from spill areas until clean up has been completed. Spilled material may be a slipping hazard. If AS-5420 is spilled, take the following steps:

Ventilate the spill area. Dike the area around the spill to prevent spreading.

Dilute to approximately 6% with water then reduce with sodium thiosulfate, a bisulfite, or a ferrous salt solution. Bisulfite or Ferrous salt may require dilute Sulfuric acid (10%) to promote reduction

Adjust the pH to neutral with Sodium Carbonate if required

Decant or filter solution and deposit the sludge in an approved landfill

To clean contaminated floors, flush with an abundant quantity of water and treat collected water as described above.

Discard any vacuumed material and the absorbent material in accordance to all FEDERAL, STATE AND LOCAL REGULATIONS.

Once this product becomes a waste, it is considered a D001 hazardous (ignitable) waste

Containers are hazardous when empty

NOTE: DO NOT wash or pour AS-5420 into any surface waters or streams or directly into sewers.

7. Handling and Storage

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HANDLING

Use in areas with adequate ventilation. In applications where the product will be exposed to elevated temperatures, use local ventilation to remove potential decomposition products when needed.

STORAGE

Keep container tightly closed with the labels visible. Keep away from

heat, and sunlight. Storage temperature range: 0-100°C (32-212°F). This material may decompose spontaneously if exposed to heat (135°C / 275°F). Store in well ventilated area. Segregate from acids, peroxides, combustibles, organic or easily oxidizable materials including antifreeze and hydraulic fluids.

8. Exposure controls and personal protection

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ENGINEERING CONTROLS

Use in areas with adequate ventilation. In applications where the product will be exposed to elevated temperatures, use local ventilation to remove potential decomposition products when needed.

PERSONAL PROTECTION

Respirator

Only necessary in fire fighting situations or if sensitivity has developed

Eye Protection

Wear chemical goggles and a face shield

Gloves

Wear synthetic rubber gloves and check with the glove manufacturers

Clothing

Normal working clothing is usually adequate, but wear a rubber apron in areas where splashing may occur

Other

Eye wash and safety showers should be in immediate work area, practice good industrial hygiene

Recommendations

ESCAPE & FIRE FIGHTING-Self-contained breathing apparatus with a face-piece operated in pressure demand or other positive-pressure mode.

9. Physical and chemical properties

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Appearance

Dark purple liquid

Odour

Odorless

Boiling Point

101°C (213.8°F)

Freezing Point

-0.5°C (31°F)

Flash Point

Not applicable

Vapor Pressure

760 mm Hg @ 105°C

Specific gravity

1.160 ± 0.020

Product pH (5%)

7.5 ± 1.5

Solubility in Water

100%

10. Stability and reactivity

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Stability

Stable under conditions specified in this data sheet. Thermal decomposition is dependent on time and temperature

Hazardous Polymerization

Will not occur

Incompatibilities

Acids, peroxides, formaldehyde, antifreeze, hydraulic fluids, and all combustible, organic, or easily oxidizable materials including metal powders.

Hazardous Decomposition Products

Contact with Hydrochloric acid may cause toxic chlorine gas to evolve

11. Toxicological information

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No Data

12. Ecological information

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No Data

13. Disposal considerations

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PRODUCT RESIDUES

Prohibition

Do not discharge to sewer.

Destruction

Dispose in accordance with federal, state, and local regulations. Various options may be

available

RCRA Hazardous D001 (ignitability)

USED PACKAGING

Decontamination

Empty packaging thoroughly rinse with water twice before disposal
Dispose in accordance with federal, state, and local regulations. Various options may be available

14. Transport information

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PROPER SHIPPING NAME

Permanganates, Inorganic, Aqueous Solution, N.O.S.

(Sodium Permanganate)

HAZARD CLASS

5.1

IDENTIFICATION NUMBER

UN3214

15. Regulatory information

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OSHA HAZARD COMMUNICATION STANDARD (26 CFR 1910.1200) [X] Hazardous [] Non-Hazardous

None of the chemicals in this product are considered highly hazardous by OSHA

CERCLA/SUPERFUND (40 CFR 117, Section 302)

This product does not contain any chemicals subject to the reporting requirements

SARA EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355)

This product does not contain any chemicals subject to the reporting requirements

SARA HAZARD CATEGORIES (40 CFR 370, Sections 311, 312)

[X] Acute [X] Chronic [X] Fire [] Pressure [X] Reactive [] None

SARA TOXIC SUBSTANCES (40 CFR 372, Section 313)

Sodium Permanganate 20% (For manganese compounds)

US TOXIC SUBSTANCES CONTROL ACT/INVENTORY STATUS (TSCA)

All components are listed

RCRA STATUS

If this product becomes a waste it is classified as D001 (Ignitable Waste)

NTP, IARC, OSHA, & ACGIH STATUS

None of the components are listed

REPORTABLE QUANTITY (RQ)

This product does not have a DOT reportable quantity

16. Other information

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No data available

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.

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

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