

SAFETY DATA SHEET

POTASSIUM PERMANGANATE, 0.25% AQ.

Section 1 - Chemical Product and Company Identification

SDS Name: Potassium Permanganate, 0.25% Aq.
Catalog Numbers: F-379-3, F-390-8, F-395-2, G-451-5, SO-418
Company Identification: ROWLEY BIOCHEMICAL
10 ELECTRONICS AVENUE
DANVERS, MA 01923
For information, call: 978-739-4883
Emergency Number: 800-424-9300
For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications

HEALTH HAZARDS

H302-Acute Oral Toxicity: 4
H312-Acute Dermal Toxicity: 4
H315-Skin Corrosion/Skin Irritation: 2
H320-Eye Damage/Irritation: 2B
H341-Germ Cell Mutagenicity: 2
H361-Reproductive Toxicity: 2
H373-Specific Target Organ Toxicity: 2

PHYSICAL HAZARDS

H272-Oxidizer: 3

ENVIRONMENTAL HAZARDS

Aquatic Acute Environmental Hazards: Not classified
Chronic Environmental Hazards: 4

Pictograms or Hazard symbols and Hazard statement.



Warning: Harmful if swallowed.
Harmful in contact with skin.
Causes skin irritation.



Warning: Suspected of causing genetic defects.
Suspected of damaging fertility or the unborn child.
May cause damage to organs.



Warning: Causes eye irritation.

Warning: May intensify fire; oxidizer

Precautionary Statement

H272

P210-Keep away from heat, flames, and hot surfaces. No smoking.

P220-Store away from combustible materials.

P221-Take any precaution to avoid mixing with combustibles.

P283-Wear fire/flame resistant/retardant clothing.

P303+P360-If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water.

P371+P380+P375-In case of major fire and large quantities, evacuate area. Fight fire remotely due to the risk of explosion.

H302

P270-Do not eat, drink or smoke when using this product.

P301+P312-IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell

P330-Rinse mouth.

P501-Dispose of contents/container in accordance with local, regional, national, international regulations.

H312

P363-Wash contaminated clothing before reuse.

H315

P264-Wash thoroughly after handling.

P280-Wear protective gloves.

P302+P352-IF ON SKIN: Wash with plenty of soap and water.

P332+P313-If skin irritation occurs: Get medical advice/attention.

P362-Take off contaminated clothing and wash before reuse

H320

P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313-If eye irritation persists: Get medical advice/attention.

H341+H361

P201-Obtain special instructions before use.

P202-Do not handle until all safety precautions have been read and understood.

P281-Use personal protective equipment as required.

P308-IF exposed or concerned: Get medical advice/attention.

P405-Store locked up.

H373

P260-Do not breathe dust/fume/gas/mist/vapor/spray.

P314-Get medical advice/attention if you feel unwell.

WARNING! May intensify fire. **Oxidizer!** Harmful if swallowed. Avoid contact with skin. **Irritant!** May cause damage to kidney, liver, skin and central nervous system. Suspected of causing genetic defects. Suspected of damaging fertility or the unborn child. **Mutagenic!**

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
7722-64-7	Potassium Permanganate	0.25 w/v
7732-18-5	Water	Balance

Section 4 - First Aid Measures

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.

Oral Exposure: If Swallowing seek immediate medical advice.

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Section 5 - Fire Fighting Measures

Firefighters should wear proper protective clothing and self contained breathing apparatus with full piece operated in positive pressure mode to prevent contact with skin and eyes.

Extinguishing Media: Use water spray, dry chemical powder, or appropriate foam.

Flash Point: N/A

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):

Wear protective gear.

Methods for Cleaning up: Absorb with sand, earth or vermiculite. Carefully sweep up and containerize for proper disposal.

Section 7 - Handling and Storage

Use care when handling. Wash thoroughly after handling. Store capped at room temperature. Keep away from incompatible materials.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes: 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: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: Purple. (Dark.)

Odor: odorless

pH: N/A

water.

Vapor Pressure: 2.3 kPa @ 20deg. C

Vapor Density: 0.62 (Air=1)

Evaporation Rate: N/A

Viscosity: N/A

Boiling Point: 100 deg. C

Solubility: N/A

Section 10 - Stability and Reactivity

Chemical Stability: Stable under ordinary conditions of use and storage. Heat and sunlight can contribute to instability.

Conditions to Avoid: Heat, freezing.

Incompatibilities with Other Materials: Highly reactive with organic materials, metals, acids. Reactive with reducing agents, combustible materials.

Hazardous Decomposition Products: The products of degradation are less toxic than the product itself.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

LD50/LC50:

CAS# 7722-64-7:

Oral rat LD50: 1090 mg/kg.

Oral mouse LD50: 2157 mg/kg.

Carcinogenicity:

CAS# 7722-64-7:

Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Mutagenicity:

CAS# 7722-64-7:

Mutagenic for bacteria and/or yeast. May cause damage to the following organs: kidneys, liver, skin, central nervous system (CNS).

Section 12 - Ecological Information

Ecotoxicity: not available

Section 13 - Disposal Considerations

Appropriate method of disposal of substance or preparation:

Handled as hazardous waste and sent to an RCRA approved incinerator or disposed in an RCRA approved wasted facility.

Section 14 – Transport Information

DOT

Non-Regulated

Section 15 - Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

European/International Regulations

European Labeling in Accordance with EC Directives

Risk Phrases:

R21/22 Harmful if in contact with skin and if swallowed
R36 Irritating to eyes
R60/61 May impair fertility, may cause harm to the unborn child.

Safety Phrases:

S20/21 When using do not eat, drink or smoke
S2 Keep out of the reach of children
S7 Keep container tightly closed
S9 Keep container in a well-ventilated place
S24/25 avoid contact with skin and eyes

Section 16 - Additional Information

MSDS Creation Date: 10/15/12

Revision #1. 8/20/13 CF

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