



Potassium Permanganate

SECTION 1 : Identification of the substance/mixture and of the supplier

Product name : Potassium

Permanganate, Manufacturer/Supplier Trade name:

POWERCHEM –Qewaisna –Menofia Egypt

Emergency telephone number:

(+2)01117366722

WWW.POWERFINECHEMICAL.COM

SECTION 2 : Hazards identification

Classification of the substance or mixture:

Chronic hazards to the aquatic environment, category 3

Not classified for physical or health hazards under GHS.

Signal word :

Hazard statements:

Harmful to aquatic life with long lasting effects

Precautionary statements:

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

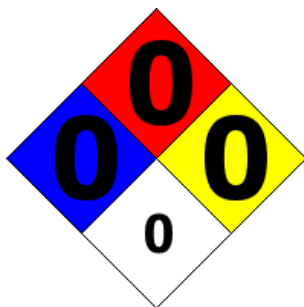
Keep out of reach of children

Read label before use

Avoid release to the environment

Other Non-GHS Classification:

**WHMIS
NFPA/HMIS**



NFPA SCALE (0-4)

Health	0
Flammability	0
Physical Hazard	0
Personal Protection	X

HMIS RATINGS (0-4)



Potassium Permanganate

SECTION 3 : Composition/information on ingredients

Ingredients:		
CAS 7732-18-5	Deionized Water	98.42 %
CAS 7722-64-7	Potassium Permanganate	1.58 %

Percentages are by weight

SECTION 4 : First aid measures

Description of first aid measures

After inhalation: Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists. If breathing difficult, give oxygen.

After skin contact: Wash hands and exposed skin with soap and plenty of water. Seek medical attention if irritation persists or if concerned.

After eye contact: Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.

After swallowing: Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.

Most important symptoms and effects, both acute and delayed:

Irritation, Nausea, Headache, Shortness of breath.;

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician. Physician should treat symptomatically.

SECTION 5 : Firefighting measures

Extinguishing media

Suitable extinguishing agents: Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents:

Special hazards arising from the substance or mixture:

Water runoff can cause environmental damage. Thermal decomposition can lead to release of irritating gases and vapors.

Advice for firefighters:

Protective equipment: Wear protective eyewear, gloves, and clothing. Refer to Section 8.

Additional information (precautions): Move product containers away from fire or keep cool with water spray as a protective measure, where feasible. Avoid contact with skin, eyes, and clothing.

SECTION 6 : Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Contain spilled material by diking or using inert absorbent.

Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13

Methods and material for containment and cleaning up:



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Contain spill using berms or dikes, Use suitable absorbent working from the outside of the spill towards the center and place in suitable container for disposal. Refer to Section 13. Wear protective eyewear, gloves, and clothing. Refer to Section 8.

Reference to other sections:

SECTION 7 : Handling and storage

Precautions for safe handling:

Avoid contact with eyes, skin, and clothing. Wash hands after handling. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Do not eat, drink, smoke, or use personal products when handling chemical substances.

Conditions for safe storage, including any incompatibilities:

Protect from freezing and physical damage. Keep away from food and beverages. Store away from incompatible materials. Store in cool, dry conditions in well sealed containers. Store with like hazards

SECTION 8 : Exposure controls/personal protection



- Control Parameters:** No applicable occupational exposure limits
- Appropriate Engineering controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Store in secondary containment if near sinks and drains to prevent release to the environment.
- Respiratory protection:** Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present.
- Protection of skin:** Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.
- Eye protection:** Safety glasses with side shields or goggles.
- General hygienic measures:** The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Wash hands before breaks and at the end of work. Perform routine housekeeping.

SECTION 9 : Physical and chemical properties

Appearance (physical state,color):	Purple-colored liquid	Explosion limit lower: Explosion limit upper:	No information available No information available
Odor:	Odorless	Vapor pressure:	No information available
Odor threshold:	No information available	Vapor density:	No information available
pH-value:	No information available	Relative density:	No information available
Melting/Freezing point:	Approx -2C	Solubilities:	Infinite solubility

**Potassium Permanganate, 0.1M**

Boiling point/Boiling range:	Approx 101.2C	Partition coefficient (n-octanol/water):	No information available
Flash point (closed cup):	No information available	Auto/Self-ignition temperature:	No information available
Evaporation rate:	No information available	Decomposition temperature:	No information available
Flammability (solid,gaseous):	No information available	Viscosity:	a. Kinematic:No information available b. Dynamic: No information available
Density: 1.0 - 1.04 Potassium Permanganate:Molecular Weight: 158.03 Potassium Permanganate:Specific gravity is 2.700 g/cm3.			

SECTION 10 : Stability and reactivity

Reactivity:Nonreactive under normal conditions.

Chemical stability:Stable under normal conditions.

Possible hazardous reactions:None under normal processing.

Conditions to avoid:Incompatible materials.

Incompatible materials:Reducing agents, sulfuric acid, flammables, metals, and reactive organic materials

Hazardous decomposition products:Carbon oxides (CO, CO2).Oxygen, oxides of potassium and manganese.

SECTION 11 : Toxicological information

Acute Toxicity:	
Oral:	750mg/kg Potassium Permanganate LD50 oral-rat
Chronic Toxicity: No additional information.	
Corrosion Irritation: No additional information.	
Sensitization:	No additional information.
Single Target Organ (STOT):	No additional information.
Numerical Measures:	No additional information.
Carcinogenicity:	No additional information.
Mutagenicity:	No additional information.
Reproductive Toxicity:	No additional information.

SECTION 12 : Ecological information**Ecotoxicity**

Potassium Permanganate LC50 - *Oncorhynchus mykiss* (rainbow trout): 0.3 - 0.6 mg/l - 96.0 h

Potassium Permanganate EC50 - *Daphnia magna* (Water flea): 0.084 mg/l - 48 h

Persistence and degradability:

Bioaccumulative potential:



Potassium Permanganate, 0.1M

Mobility in soil:

Other adverse effects: Manganese and its compounds have moderate acute and chronic toxicity to aquatic life.

SECTION 13 : Disposal considerations

Waste disposal recommendations:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification. Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water.

SECTION 14 : Transport information

UN-Number

Not Dangerous Goods

UN proper shipping name

Not Dangerous Goods

Transport hazard class(es)

Packing group: Not Dangerous Goods

Environmental hazard:

Transport in bulk:

Special precautions for user:

SECTION 15 : Regulatory information

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

None of the ingredients is listed

SARA Section 313 (Specific toxic chemical listings):

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N450 Manganese Compounds

RCRA (hazardous waste code):

None of the ingredients is listed

TSCA (Toxic Substances Control Act):

All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

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Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

Chemicals known to cause developmental toxicity:



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None of the ingredients is listed

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients is listed

Canadian NPRI Ingredient Disclosure list (limit 1%):

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SECTION 16 : Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material. Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note:

GHS Full Text Phrases:

Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

PNEC: Predicted No-Effect Concentration (REACH)

CFR: Code of Federal Regulations (USA)

SARA: Superfund Amendments and Reauthorization Act (USA)

RCRA: Resource Conservation and Recovery Act (USA)

TSCA: Toxic Substances Control Act (USA)

NPRI: National Pollutant Release Inventory (Canada)

DOT: US Department of Transportation

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IATA: International Air Transport Association

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ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

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