



TULSTAR PRODUCTS, INC.

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MATERIAL SAFETY DATA SHEET

COMPANY INFORMATION

Company Name: **TULSTAR PRODUCTS, INC.**
5510 S. Lewis Ave.
Tulsa, OK 74105
Phone Number: (918) 749-9060
Fax Number: (918) 747-1444
Email Address: tulstar@tulstar.com
Emergency Number: CHEMTREC 800-424-9300 (24 hours)

IDENTIFICATION

Product Name: Potassium Permanganate
Formula: KMnO_4
CAS No.: 7722-64-7

REACTIVITY

Stability: Yes
Conditions to Avoid: High temperatures and pressures.
Materials to Avoid: Alcohols, acids, peroxides, oxalates, sulfites, organic substances.
Hazardous
Decomposition Products: May include toxic and hazardous oxides of potassium and manganese.
Hazardous Poly Occur: No
Conditions to Avoid: Not Relevant (Poly)

FIRE & EXPLOSION HAZARD

Flash Point: Not Flammable
Upper Explosive Limit: Not Available
Extinguishing Media: Water only, no dry chemical, carbon dioxide or halon.
Special Fire Fighting Procedures: Move container from fire area if you can do it without risk. Apply cooling water to sides of containers exposed to flames until well after fire is out.
Unusual Hazards: Oxidizers decompose, especially when heated, to yield oxygen or other gases will increase the burning rate of combustible matter.

PRECAUTIONS FOR SAFE HANDLING & USE

Released or Spilled: Soil Spill- Dig a pit, pond or holding area to contain liquid or solid material. Cover solids with a plastic sheet to prevent dissolving in rain or fire fighting water.
Water Spill- Neutralize with caustic soda.
Neutralizing Agent: Sodium Bisulfate
Waste Disposal Method: Observe all federal, state and local regulations when storing or disposing of this substance. For assistance, contact the district director of the environmental protection agency.
Handling/Storage: Protect against physical damage. Separate from sulfuric acid, hydrogen peroxide, and all combustible, organic or readily oxidizable materials.
Other Precautions: Avoid contact with combustible materials (wood, paper, fuel, oils); ignition or explosion may result. Avoid contamination of water sources.

HEALTH HAZARD

LD ₅₀ – LC ₅₀ Mixture:	LD ₅₀ , Rat, (Oral) 1090 mg/kg
Route of Entry:	Inhalation- yes Skin- yes Ingestion- yes
Acute & Chronic:	Eyes (Acute)- Contact with solid may cause burns with redness, pain, lacrimation and blurred vision. Skin- Solid may cause severe burns with redness and pain. Inhalation- May cause severe inflammation and corrosion of the GI tract.
Carcinogenicity:	NTP- No IARC- No OSHA- No
Overexposure:	Eyes- Conjunctivitis, turbidity and brown erosion of the teeth, ulcerative changes in the mouth, bronchial and gastrointestinal disturbances. Ingestion- Nausea, vomiting, difficulty speaking or swallowing, black stool.
First Aid Procedures:	Eye- Wash eyes immediately with large amounts of water. Get medical attention immediately. Skin- Wash affected area with soap or mild detergent and large amounts of water. Get medical attention immediately. Inhalation- Remove from exposed area to fresh air. Get medical attention immediately. Ingestion- Do not use gastric lavage or emesis. Drink water. Get medical attention immediately.

PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Dark purple or bronze-like crystals, with a blue metallic luster and sweet taste.
pH:	Unknown
Boiling Point:	Unknown
Melting Point:	240°C
Flash Point:	Not Flammable
Vapor Pressure:	Unknown
Vapor Density:	Unknown (air = 1)
Specific Gravity:	2.703
Solubility in Water:	6.4%
Viscosity:	Not Applicable

STABILITY & REACTIVITY

Stability:	Stable under certain conditions. Decomposition produces dangerous gases, upon contact with flames or hot metallic surfaces.
Conditions to Avoid:	Heat and sources of heat.
Material to Avoid:	Alkali metals and their alloys, strong alkaline desiccatives, ferric chlorides, some molecular sieves, alkaline (earth metals), metallic powders.
Hazardous Decomposition	
Products:	Hydrochloric acid, phosgene, fluorophosgene.
Other Information:	Contact with strong bases or alkaline materials may provoke violent reactions or explosions. The vapor is heavier than air, disperses at ground level.

CONTROL MEASURES

Respiratory Protection:	The specific respirator selected must be based on contamination levels found or expected in the work place. The respirator must be jointly approved by NIOSH/HSHA.
Ventilation:	Provide MECHAN vent to maintain.
Protective Gloves:	Impervious
Eye Protection:	Splash-proof or dust resistant goggles.
Others:	Eye wash fountain and quick drench shower in work area.
Work Hygienic Practices:	Keep area clean. Wash thoroughly after each use or handling. Avoid contact.

TRANSPORTATION INFORMATION

DOT Proper Shipping Name:	Potassium Permanganate
DOT Class:	5.1

DOT ID Number:	UN1490
DOT Packing Group:	II
DOT Label:	Oxidizer
IATA Proper Shipping Name:	Potassium Permanganate
IATA UN ID Number:	1490
IATA UN Class:	5.1
IATA Label:	Oxidizer

LABEL INFORMATION

Label Required:	Yes
Common Name:	Potassium Permanganate
Chronic Hazard:	Yes
Signal Word:	WARNING!
Special Hazard Precautions:	Eyes (Acute)- Contact with solid may cause burns with redness, pain, lacrimation and blurred vision. Skin- Solid may cause severe burns with redness and pain. Inhalation- May cause severe inflammation and corrosion of the GI tract.