



SAFETY DATA SHEET

ProChemOnline.com



SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Potassium Manganate**

PRODUCT NUMBER: 2922

CAS NUMBER: 10294-64-1

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Warning

Hazard Statements

H272	May intensify fire; oxidizer.
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Precautionary Phrases

P210	Keep away from heat/sparks/open flames/hot surfaces
P220	Keep/store away from clothing/combustible material
P221	Take any precaution to avoid mixing with combustibles.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection
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.
P370+P378	In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

HMIS CLASSIFICATION:

Health: 1

Fire: 0

Reactivity Hazard: 2

NFPA RATING:

Health: 1

Flammability: 0

Reactivity Hazard: 2

Specific Hazard: OX

SECTION 2 HAZARDS IDENTIFICATION (Cont.)**EYE CONTACT:** Causes irritation of the eyes.**SKIN CONTACT:** Causes irritation of the skin.**INHALATION:** Causes irritation to the respiratory system.**INGESTION:** May be harmful if swallowed**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**Formula: K_2MnO_4

Molecular Weight: 197.13

CHEMICAL NAME	CAS#	%
Potassium Manganate	10294-64-1	100

SECTION 4 FIRST AID MEASURES**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for several minutes. Assure adequate flushing under eyelids. Consult a physician.**SKIN EXPOSURE:** Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation or redness persists.**INHALATION:** Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.**INGESTION:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary.**SECTION 5 FIREFIGHTING MEASURES****FLASH POINT:** Not available**AUTO IGNITION TEMPERATURE:** Not available**EXPLOSION LIMITS:** Not available**EXTINGUISHING MEDIUM:** Carbon dioxide, extinguishing powder, or water spray. Fight large fires with water spray or alcohol resistant foam.**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Potassium oxides and manganese oxides.**SECTION 6 ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Ensure adequate ventilation.**ENVIRONMENTAL PRECAUTIONS:** Prevent spillage from entering drains or allowing it to be released into the environment.**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Contain spillage, sweep up and place in a suitable container for proper disposal.**SECTION 7 HANDLING AND STORAGE****PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts and aerosols. Keep away from sources of ignition – No smoking.**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Store under nitrogen. Store away from flammable substances, reducing agents, organic materials, oxidizing agents, or metal powders.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS: Contains no substances with occupational exposure limit values.

Component	Exposure Limits	Basis	Entity
Potassium Manganate	5 mg/m ³	CEIL	OSHA
	0.02 mg/m ^{3*} 0.1 mg/m ^{3**}	TLV	ACGIH
	1 mg/m ³	REL	NIOSH
	3 mg/m ³	STEL	NIOSH

STEL: Short Term Exposure Limit during x minutes.

REL: Recommended Exposure Limit

TLV: Threshold Limit Value over 8 hours of work.

CEIL: Ceiling

EYE PROTECTION: Wear chemical safety glasses or goggles and face shield

SKIN PROTECTION: Wear nitrile or rubber gloves, and a complete suit protecting against chemicals

VENTILATION: Provide local exhaust, preferably mechanical.

RESPIRATOR: Use an approved respirator

ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Black solid

ODOR: No data available

MOLECULAR WEIGHT: No data available

BOILING POINT: No data available

MELTING POINT: 190° C (dec.)

SPECIFIC GRAVITY: No data available

VAPOR DENSITY: No data available

SOLUBILITY: Insoluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Reacts with strong oxidizing agents, reacts with reducing agents, reacts with flammable substances.

CONDITIONS TO AVOID: Keep away from heat and combustible materials.

INCOMPATIBILITY: Strong oxidizing agents, reducing agents, flammable substances, metal powders, organic materials, peroxides, zinc, and copper.

DECOMPOSITION PRODUCTS: Potassium oxides and manganese oxides.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: Not available

CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.

MUTAGENIC EFFECTS: Not available

TETRATOGENIC EFFECTS: Not available

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

UN1479

Oxidizing solid, n.o.s.

(Potassium manganate)

CLASS 5.1

PG III

Marine Pollutant: No

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory

DSCL (EEC): Listed on the DSCL inventory

SARA 302/304: Not Listed

SARA 311/312: Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard.

SARA (TITLE 313): Potassium Manganate

CALIFORNIA PROP. 65: Not Listed

WHMIS CANADA: Class C: Oxidizing materials. Class D-2B: Toxic material causing other toxic effects.

NEW JERSEY RIGHT TO KNOW COMPONENTS: Potassium manganate

PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Potassium manganate

SECTION 16 OTHER INFORMATION

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