



Safety Data Sheet  
According to the (US) Hazard Communication Standard (29 CFR 1910.1200)

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**Product Name** Potassium Permanganate, 0.1 N  
**NCL Catalog Number** P-83  
**Product Description** Laboratory chemical  
**Supplier**  
NCL of Wisconsin, Inc. **Telephone:** 1-800-648-7836 **Fax:** 715-449-2454  
P.O. Box 8 **Emergency Contact:** 1-800-424-9300 (Chemtrec)  
Biramwood, WI 54414 **Email:** [nclabs@nclabs.com](mailto:nclabs@nclabs.com)

**SECTION 2: HAZARDS IDENTIFICATION**

**GHS Classification**

Aquatic Acute Category 3  
Aquatic Chronic Category 3

**Signal Word** Not applicable

**Hazard Statements**

H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

P273 Avoid release to the environment.  
P501 Dispose of contents/container to comply with local, state and federal regulations.

**Other Hazards Not Contributing to the Classification**

None under normal conditions.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical Identity** Not applicable  
**Common Name** Not applicable

**Mixture**

Name	CAS #	Approximate %
Water	7732-18-5	>99
Potassium Permanganate	7722-64-7	<1

**SECTION 4: FIRST AID MEASURES**

**Description of First Aid Measures**

**General First Aid Measures** Never give anything by mouth to an unconscious person. Seek medical advice if you feel unwell.  
**If Inhaled** Remove person to fresh air and keep comfortable for breathing. Allow victim to rest.  
**In Case of Skin Contact** Remove all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention.  
**In Case of Eye Contact** Rinse carefully with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: get medical advice/attention.  
**If Swallowed** Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

**Most Important Symptoms/Effects Acute and Delayed**  
No additional information available.

**Indication of Immediate Medical Attention and Special Treatment Needed**

Seek medical attention if exposed.

**SECTION 5: FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media**

Foam. Dry powder. Sand. Carbon dioxide. Water spray.

**Unsuitable Extinguishing Media**

Do not use high pressure water stream.

**Special Hazards Arising from the Chemical**

Thermal decomposition generates corrosive vapors. Reacts with some metals to release highly flammable gases/vapors.

**Special Protective Actions for Fire-Fighters**

Wear self-contained breathing apparatus and protective clothing. Keep exposed containers cool with water spray.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures**

**Personal Precautions**

Use personal protective equipment (see section 8). Evacuate area of non-essential personnel. Eliminate ignition sources. Ventilate area.

**Environmental Precautions**

Prevent entry to surface and ground waters.

**Methods and Materials for Containment and Cleaning Up**

Clean up spill with inert absorbent material. Collect spillage. Store away from other materials. Ensure compliance with federal, state and local regulations.

**SECTION 7: HANDLING AND STORAGE**

**Precautions for Safe Handling**

Avoid contact with eyes and skin. Avoid breathing vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

**Conditions for Safe Storage Including any Incompatibilities**

Light sensitive; keep in a tightly closed container, stored in a cool, dry, ventilated area when not in use. Store away from sunlight, which can contribute to instability. Store away from strong reducing agents and strong bases.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control Parameters**

<b>Potassium Permanganate (7722-64-7)</b>		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (Ceiling) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> as Mn

**Appropriate Engineering Controls**

Material should be handled or transferred in a fume hood or with equivalent ventilation. Maintain eye-wash fountain and quick-drench facilities in work area.

**Individual Protection Measures**

Avoid all unnecessary exposure.

**Eye/Face Protection**

Use chemical safety goggles and /or a full face shield where splashing is possible. Contact lenses should not be worn when working with this material.

**Skin Protection**

Rubber or neoprene gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.

**Respiratory Protection**

Wear appropriate mask.

**Other Information**

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

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State**

Liquid

<b>Color</b>	Dark purple
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	Not determined
<b>pH</b>	Not determined
<b>Melting Point/Freezing Point</b>	Not determined
<b>Initial Boiling Point and Boiling Range</b>	Not determined
<b>Flash Point</b>	Not determined
<b>Evaporation Rate</b>	Not determined
<b>Flammability (Solid, Gas)</b>	Not determined
<b>Upper/Lower Flammability/Explosive Limits</b>	Not determined
<b>Vapor Pressure</b>	Not determined
<b>Vapor Density</b>	Not determined
<b>Relative Density</b>	Not determined
<b>Solubility</b>	Soluble in water
<b>Partition Coefficient: n-octanol/water</b>	Not determined
<b>Auto-Ignition Temperature</b>	Not determined
<b>Decomposition Temperature</b>	Not determined
<b>Viscosity</b>	Not determined

#### SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Not available.
<b>Chemical Stability</b>	Stable under ordinary conditions of use and storage.
<b>Possibility of Hazardous Reactions</b>	Not available.
<b>Conditions to Avoid</b>	Extremely high or low temperatures. Heat and sunlight can contribute to instability.
<b>Incompatible Materials</b>	Powdered metals, alcohol, arsenites, bromides, iodides, phosphorus, sulfuric acid, organic compounds, sulfur, activated carbon, hydrides, strong hydrogen peroxide, ferrous or mercurous salts, hypophosphites, hyposulfites, sulfites, peroxides, and oxalates.
<b>Hazardous Decomposition Products</b>	When heated to decomposition, can emit toxic gases.

#### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	Not classified
<b>Potassium Permanganate (7722-64-7)</b>	
<b>LD50 oral rat</b>	1090 mg/kg
<b>Water (7732-18-5)</b>	
<b>LD50 oral rat</b>	≥90000 mg/kg
<b>Skin Corrosion/Irritation</b>	Not classified
<b>Serious Eye Damage/Irritation</b>	Not classified
<b>Respiratory or Skin Sensitization</b>	Not classified
<b>Germ Cell Mutagenicity</b>	Not classified
<b>Carcinogenicity</b>	Not classified
<b>Reproductive Toxicity</b>	Not classified
<b>Specific Target Organ Toxicity (Single Exposure)</b>	Not classified
<b>Specific Target Organ Toxicity (Repeated Exposure)</b>	Not classified
<b>Aspiration Hazard</b>	Not classified
<b>Potential Adverse Human Health Effects and Symptoms</b>	No data available

<b>Chronic Symptoms</b>	Not available
<b>Likely Routes of Exposure</b>	Skin and eye contact.
<b>Other Information</b>	Not available

**SECTION 12: ECOLOGICAL INFORMATION**

**Ecology – Water Toxicity** Harmful to aquatic life with long lasting effects.

<b>Potassium Permanganate (7722-64-7)</b>	
LC50 fishes 1	0.261 mg/l (96 h; Ictalurus punctatus)
EC50 Daphnia 1	0.235 mg/l (24 h; Daphnia magna)
LC50 fish 2	1.22 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	0.5 mg/l (96 h; Crustacea)
TLM fish 1	5.4 ppm (48 h; Lepomis macrochirus)
Threshold limit other aquatic organisms 1	> 0.64 mg/l (Plankton)
Threshold limit algae 1	10 mg/l (4 h; Chlorella sp.)

<b>Persistence and Degradability</b>	Not established
<b>Bioaccumulative Potential</b>	Not established
<b>Log Pow</b>	-1.73 (Estimated value)
<b>Mobility in Soil</b>	Not established
<b>Other Adverse Effects</b>	No additional information

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Methods of Disposal**

<b>Disposal Recommendations</b>	Dispose of contents/containers in accordance with federal, state and local regulations.
<b>Other Information</b>	Avoid release to the surrounding environment.

**SECTION 14: TRANSPORT INFORMATION**

<b>UN Number</b>	Not applicable
<b>UN Shipping Name</b>	Not applicable
<b>Transport Hazard Class(es)</b>	Not applicable
<b>Packing Group</b>	Not applicable
<b>Environmental Hazards</b>	Not applicable
<b>Transport in Bulk</b>	Not applicable
<b>Other Precautions</b>	Not applicable

**SECTION 15: REGULATORY INFORMATION**

<b>Potassium Permanganate (7722-64-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Reportable Quantity	100 lb
SARA Section 311/312 Hazard Classes	Reactive hazard
<b>Water (7732-18-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

**SECTION 16: OTHER INFORMATION**

Revision Date: 03/02/2015

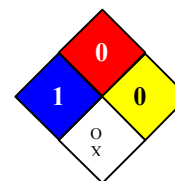
**NFPA Hazards**

**Health Hazard** 1: Exposure would cause irritation with only minor residual injury.

**Fire Hazard** 0: Materials that will not burn.

**Reactivity/Instability** 0: Normally stable, even under fire exposure conditions, and are not reactive with water.

**Special Hazard** OX: Strong Oxidizer



**HMIS III Rating**

**Health** 1: Irritation or minor reversible injury possible

**Flammability** 0: Materials that will not burn.

**Physical Hazard** 0: Materials that are normally stable.

**Personal Protection** B

P-83	
Health	1
Flammability	0
Physical Hazard	0
Personal Protection	B

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**END OF SAFETY DATA SHEET**