Safety Data Sheet

Potassium Permanganate

Section 1 Product Description

Product Name: Potassium Permanganate
Recommended Use: Science education applications

Synonyms: Permanganic acid, potassium salt

Supplier: C2A Sales & Supplies (Barbados) Ltd.

#3 Canewood Road, Jackson, St. Michael, Barbados BB11005

1-246-426-1256

Section 2

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;





DANGER

May intensify fire; oxidizer. Harmful if swallowed. Toxic to aquatic life.

GHS Classification:

Oxidizing Solid Category 2, Hazardous to the aquatic environment - Acute Category 2, Acute Toxicity - Oral Category 4

Section 3	Composition / Information on Ingredients		
Chemical Name	CAS#	<u>%</u>	
Potassium Permanganate	7722-64-7	100	

Section 4 First Aid Measures

Emergency and First Aid Procedures

In case of accident by inhalation: remove casualty to fresh air and keep at rest. **Eyes:** In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

Skin Contact: After contact with skin, wash immediately with plenty of water.

Ingestion: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

unwell.

Section 5 Firefighting Procedures

Extinguishing Media: Water spray

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Product is a strong oxidizer. Contact with combustible materials, flammable materials, or

powdered metals can cause fire or explosion. Can react violently with reducing agents.

Hazardous Combustion Products: Potassium Oxide, Metal Oxides,

Section 6 Spill or Leak Procedures

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Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Avoid the generation of dusts during clean-up.

Prevent the spread of any spill to minimize harm to human health and the environment if safe

to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Do not allow the spilled product to enter public drainage system or open waterways. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

Section 7 Handling and Storage

Handling:Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep/Store away from

clothing/.../combustible materials. Take any precaution to avoid mixing with combustibles. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Keep container tightly closed in a cool, well-ventilated

olace.

Storage: Store in a secure area suitable for oxidizing agents. Store away from flammable materials, organic solvents and

combustible materials.

Storage Code: Yellow - Reactive. Store separate and away from incompatible material.

Section 8 Protection Information

 Chemical Name
 (TWA)
 (STEL)
 (TWA)
 (STEL)

 Potassium Permanganate
 0.02 mg/m3 TWA (as
 N/A
 N/A
 N/A

Mn, listed under respirable

fraction);

0.1 mg/m3 TWA (as Mn)

Control Parameters

Engineering Measures: Local exhaust ventilation or other engineering control

handling or using this product to avoid overexposure.s are normally r quired when

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use. We are a NIOSH

approved respirator if levels above the exposure limits are possible.

Eye Protection: Wear chemical splash goggles when handling this product. Have an ye wash station

e available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for che and replace at regular intervals. Clean protective equipment wash hands and regularly, other exposed areas with mild soap and water before and when leaving

eating, drinking, work.

Gloves: Nitrile

Section 9 Physical Data

Formula: KMnO4 Vapor Pressure: N/A

Molecular Weight: 158.04 Evaporation Rate (BuAc=1): N/A
Appearance: Purple Crystalline Solid Vapor Density (Air=1): 5.4

Odor: None Specific Gravity: 2.7

Odor Threshold: No data available Solubility in Water: Soluble

pH: No data available
 Melting Point: No data available
 Boiling Point: No data available
 Decomposition Temperature: No data available

Flash Point: No data available Viscosity: No data available

Flammable Limits in Air: N/A Percent Volatile by Volume: 0% (21°C)

Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.

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Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Sparks, open flame, other ignition sources, and elevated temperatures.

Incompatible Materials: Alcohols, Metals (ferrous), Metals (powdered), Metal Salts, Peroxides, Strong acids Hazardous

Decomposition Products: Metal Oxides, **Hazardous Polymerization:** Will not occur

Section 11

Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): Gastrointestinal,, Respiratory Irritation, Eye Irritation

Delayed Effects: No data available

Acute Toxicity:

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50

Potassium Permanganate 7722-64-7 Oral LD50 Not determined

GUINEA PIG 1151

Not determined

mg/kg

Oral LD50 Mouse 2157 mg/kg

Carcinogenicity:

Chemical Name CAS Number IARC NTP OSHA

No data available 7722-64-7 Not listed Not listed Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: See Section 2

Chronic: N/A

Section 12

Ecological Data

Overview: Severe ecological hazard. This product may be toxic to plants and/or wildlife. Keep out of

waterways.

Mobility: No data

Persistence: No data

Bioaccumulation: No data

Degradability: No data

Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

Potassium Permanganate 7722-64-7 96 HR LC50 CYPRINUS CARPIO 2.97 - 3.11 MG/L 96

HR LC50 CYPRINUS CARPIO 3.16 - 3.77 MG/L 96 HR LC50 LEPOMIS MACROCHIRUS 2.7 MG/L 96 HR LC50 ONCORHYNCHUS MYKISS 1.08 - 1.38 MG/L

Section 13

Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): D001

Section 14

Transport Information

Ground - DOT Proper Shipping Name:

Air - IATA Proper Shipping Name:

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Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name CERCLA RQ § 313 Name § 304 RQ § 302 TPQ **CAA 112(2)**

> Number TQ

Potassium Permanganate 7722-64-7 No No 100 lb RQ 100 lb final RQ;

45.4 kg final

Immediately dangerous to life and health

RQ

California Prop 65: No California Proposition 65 ingredients

Section 16 Additional Information

Printed: 08-25-2018 Revised: 08/21/2018 Replaces: 06/15/2018

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health