

# SAFETY DATA SHEET

Creation Date 22-Sep-2009

Revision Date 18-Dec-2019

**Revision Number** 3

1. Identification

**Product Name** 

# Potassium Permanganate Solution, 0.5N (Certified)

Cat No. :

Synonyms

C6567 None

**Recommended Use** Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

# Details of the supplier of the safety data sheet

### Company

Lab Alley LLC 22111 Highway 71 West, Suite 601 Spicewood, Texas 78669 Tel: 512-668-9918

# 2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

# Label Elements

**Hazard Statements** 

### **Precautionary Statements** Hazards not otherwise classified (HNOC) Toxic to aquatic life with long lasting effects

# 3. Composition / information on ingredients

Component	CAS-No	Weight %
Water	7732-18-5	98.42
Potassium permanganate	7722-64-7	1.580

# 4. First-aid measures

**Eye Contact** 

Flush eyes with water as a precaution. Get medical attention if symptoms occur.

Skin Contact	Rinse with plenty of water. Get medical attention if symptoms occur.
Inhalation	Move to fresh air. Get medical attention if symptoms occur. If not breathing, give artificial respiration.
Ingestion	Do not induce vomiting. Obtain medical attention.
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically

	5. Fire-fighting measures
Suitable Extinguishing Media	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	Not applicable No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t No information available No information available

# **Specific Hazards Arising from the Chemical**

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. None reasonably foreseeable.

# **Hazardous Combustion Products**

# Heavy metal oxides

# **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### NFPA

Health 2	Flammability 0	<b>Instability</b> 0	Physical hazards N/A
	6. Accidental rel	lease measures	
Personal Precautions	Use personal protective eq skin and the eyes.	uipment. Ensure adequate ven	tilation. Avoid contact with the
Environmental Precautions		ater or sanitary sewer system. material to contaminate ground	Should not be released into the I water system.

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Up

	7. Handling and storage
Handling	Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid ingestion and inhalation.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.
	8. Exposure controls / personal protection
Exposure Guidelines	

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Potassium permanganate	TWA: 0.02 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>	(Vacated) Ceiling: 5 mg/m <sup>3</sup> Ceiling: 5 mg/m <sup>3</sup>	IDLH: 500 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures	None under normal use conditions.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Purple
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	0 °C / 32 °F
Boiling Point/Range	100 °C / 212 °F
Flash Point	Not applicable
Evaporation Rate	> 1 (Ether = 1.0)
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	14 mmHg
Vapor Density	0.7
Specific Gravity	1.0
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Excess heat.
Incompatible Materials	None known
Hazardous Decomposition Product	<b>s</b> Heavy metal oxides

#### **Hazardous Polymerization**

Hazardous polymerization does not occur.

**Hazardous Reactions** 

None under normal processing.

# 11. Toxicological information

Acute Toxicity

**Product Information** 

## No acute toxicity information is available for this product

Component Information			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	-	Not listed	Not listed
Potassium permanganate	LD50 = 750 mg/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic	No information available		
Products			
Delayed and immediate effects	as well as chronic effects from	n short and long-term exposure	e

Irritation No information available

## Sensitization No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed
Potassium	7722-64-7	Not listed	Not listed	Not listed	Not listed	Not listed
permanganate						
Mutagenic Effects		No information ava	ailable			
Reproductive Effect	S	No information ava	ailable.			
Developmental Effe	cts	No information ava	ailable.			
Teratogenicity		No information ava	No information available.			
STOT - single exposureNone knownSTOT - repeated exposureNone known						
Aspiration hazard No information available						
Symptoms / effects delayed	,both acute and	No information ava	ailable			
Endocrine Disrupto	r Information	No information ava	ailable			
Other Adverse Effects May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause damage. The toxicological properties have not been fully investigated.			/lay cause kidn			

# 12. Ecological information

# Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. Contains a substance which is:. Very toxic to aquatic organisms. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Potassium permanganate	Not listed	2.97-3.11 mg/L LC50 96 h	Not listed	Not listed
		3.16-3.77 mg/L LC50 96 h		
		3.3-3.93 mg/L LC50 96 h		
		2.3 mg/L LC50 96 h		

	0.769-1.27 mg/L LC50 96 h 1.08-1.38 mg/L LC50 96 h				
	1.8-5.6 mg/L LC50 96 h				
	2.7 mg/L LC50 96 h				
Persistence and Degradability	May persist				
<b>Bioaccumulation/ Accumulation</b>	No information available.				
Mobility	No information available.				
	13. Disposal considerations				
Waste Disposal Methods	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 to ensure complete and accurate classification.				
	14. Transport information				
DOT					
UN-No	UN3082				
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.				
Proper technical name	POTASSIUM PERMANGANATE				
Hazard Class	9				
Packing Group	III				
TDG					
UN-No					
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.				
Hazard Class	9				
Packing Group	III				
IATA UN-No	UN3082				
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.				
Hazard Class	9				
Packing Group					
IMDG/IMO	111				
UN-No	UN3082				
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.				
Hazard Class	9				
Packing Group					
	15. Regulatory information				

All of the components in the product are on the following Inventory lists: X = listed

### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Water	Х	Х	-	231-791-2	-		Х	-	Х	Х	Х
Potassium permanganate	Х	Х	-	231-760-3	-		Х	Х	Х	Х	Х

- Legend:
- X Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants

that comprises one of the eligibility criteria for the exemption rule.

### U.S. Federal Regulations

### **TSCA 12(b)**

Not applicable

#### **SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Potassium permanganate	7722-64-7	0.316	1.0

# SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

# **CWA (Clean Water Act)**

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Potassium permanganate	Х	100 lb	-	-

### Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Potassium permanganate	Х		-

**OSHA** Occupational Safety and Health Administration Not applicable

# CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Potassium permanganate	100 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

Negulations					
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Water	-	-	Х	-	-
Potassium permanganate	Х	Х	Х	Х	Х

# U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

### U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

# Other International Regulations

### Mexico - Grade

No information available

16.	Other	information	
-----	-------	-------------	--

# Prepared By

Regulatory Affairs Lab Alley LLC Email: customerservice@laballey.com

Creation Date	22-Sep-2009
Revision Date	18-Dec-2019
Print Date	18-Dec-2019
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

# Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

