

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 02/04/2014 Version: 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Mixture

Product name : Potassium Permanganate, 0.1N (0.02M)

Product code : C6563

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : For laboratory and manufacturing use only.

#### 1.3. Details of the supplier of the safety data sheet

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

www.laballev.com\_

## 1.4. Emergency telephone number

Emergency number : InfoTrac: 800-535-5053

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Aquatic Acute 3 H402 Aquatic Chronic 3 H412

#### 2.2. Label elements

#### **GHS-US** labelling

Hazard statements (GHS-US) : H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS-US) : P273 - Avoid release to the environment

P501 - Dispose of contents/container to comply with local, state and federal regulations

#### 2.3. Other hazards

Other hazards not contributing to the

classification

: None under normal conditions.

# 2.4. Unknown acute toxicity (GHS-US)

No data available

# **SECTION 3: Composition/information on ingredients**

### 3.1. Substance

Not applicable

Full text of H-phrases: see section 16

## 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	99.68	Not classified
Potassium Permanganate	(CAS No) 7722-64-7	0.32	Ox. Sol. 2, H272 Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

(show the label where possible).

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by

warm water rinse.

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First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Obtain medical assistance.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Gloves.

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

## 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

# 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : 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

vapour.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Light sensitive. Keep container closed when not in use. Incompatible products : Strong reducing agents. Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

#### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

Potassium Permanganate (7722-64-7)		
USA ACGIH ACGIH TWA (mg/m³) 0.1 mg/m³		
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	5 mg/m³ as Mn

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#### 8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity

of any potential exposure. Ensure adequate ventilation.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Purple.
Odour : None.

Odour threshold No data available No data available Relative evaporation rate (butylacetate=1) : No data available Melting point No data available : No data available Freezing point : No data available Boiling point Flash point No data available Self ignition temperature No data available No data available Decomposition temperature Flammability (solid, gas) : No data available Vapour pressure No data available Relative vapour density at 20 °C No data available Relative density : No data available

Density : 1 g/ml

Solubility : Soluble in water. Log Pow : No data available Log Kow No data available Viscosity, kinematic No data available Viscosity, dynamic No data available No data available Explosive properties Oxidising properties No data available **Explosive limits** No data available

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Not established.

## 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong reducing agents. Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

manganese. oxygen. fume. Carbon monoxide. Carbon dioxide.

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# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Potassium Permanganate (7722-64-7)	
LD50 oral rat	1090 mg/kg (Rat)

 Water (7732-18-5)

 LD50 oral rat
 ≥ 90000 mg/kg

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Likely routes of exposure : Skin and eye contact

# **SECTION 12: Ecological information**

## 12.1. Toxicity

Ecology - water : Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Potassium Permanganate (7722-64-7)	
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.)

## 12.2. Persistence and degradability

Potassium Permanganate, 0.1N (0.02M)	
Persistence and degradability	May cause long-term adverse effects in the environment.

Potassium Permanganate (7722-64-7)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

W ( (7700 40 F)		
Water (7732-18-5)		
Persistence and degradability	Not established	

# 12.3. Bioaccumulative potential

Bioaccumulative potential

Potassium Permanganate, 0.1N (0.02M)	
Bioaccumulative potential Not established.	
Potassium Permanganate (7722-64-7)	
Log Pow	-1.73 (Estimated value)

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Bioaccumulation: not applicable.

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Water (7732-18-5)	
Bioaccumulative potential	Not established.

## 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to comply with local, state and federal regulations.

Ecology - waste materials : Avoid release to the environment.

## **SECTION 14: Transport information**

In accordance with DOT

No dangerous good in sense of transport regulations

#### **Additional information**

Other information : No supplementary information available.

## **ADR**

Transport document description

#### Transport by sea

No additional information available

#### Air transport

No additional information available

## **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

Potassium Permanganate (7722-64-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	100 lb
SARA Section 311/312 Hazard Classes	Reactive hazard

#### Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## 15.2. International regulations

## **CANADA**

Potassium Permanganate, 0.1N (0.02M)		
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	
Potassium Permanganate (7722-64-7)		
Listed on the Canadian DSL (Domestic Sustances List) inventory.		
WHMIS Classification	Class C - Oxidizing Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
Water (7732-18-5)		
Listed on the Canadian DSL (Domestic Sustances List) inventory.		

Uncontrolled product according to WHMIS classification criteria

# EU-Regulations

WHMIS Classification

No additional information available

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## Classification according to Regulation (EC) No. 1272/2008 [CLP]

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

#### 15.2.2. National regulations

#### Potassium Permanganate (7722-64-7)

Listed on the Canadian Ingredient Disclosure List

## Water (7732-18-5)

Not listed on the Canadian Ingredient Disclosure List

#### 15.3. US State regulations

No additional information available

## **SECTION 16: Other information**

Other information : None.

Full text of H-phrases: see section 16:

xt of n-prirases, see section to.		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1	
Aquatic Acute 3	Hazardous to the aquatic environment — AcuteHazard, Category 3	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category  1	
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3	
Ox. Sol. 2	Oxidising Solids, Category 2	
H272	May intensify fire; oxidiser	
H302	Harmful if swallowed	
H400	Very toxic to aquatic life	
H402	Harmful to aquatic life	
H410	Very toxic to aquatic life with long lasting effects	
H412	Harmful to aquatic life with long lasting effects	

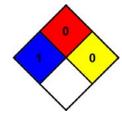
NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



# **HMIS III Rating**

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard
Physical : 0 Minimal Hazard

Personal Protection : B

SDS US (GHS HazCom 2012)

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