

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 com	pany/undertaki	ng
1.1. Product identifier			
Product form	: Mixture		
Product name	: Potassium Permanganate, 0.2N (0.0	4M)	
Product code	: LC20000		
1.2. Relevant identified uses of the	substance or mixture and uses advised ag	ainst	
Use of the substance/mixture	: For laboratory and manufacturing us		
1.3. Details of the supplier of the sa	, ,	,	
LabChem Inc Jackson's Pointe Commerce Park Building Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com			
1.4. Emergency telephone number			
Emergency number	: CHEMTREC: 1-800-424-9300 or 011	1-703-527-3887	
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 lo	ng lasting effects	
Precautionary statements (GHS-US)	: P273 - Avoid release to the environm P501 - Dispose of contents/container		, 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-U	JS)		
No data available			
SECTION 3: Composition/inform	ation 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	99.37	Not classified
Potassium Permanganate	(CAS No) 7722-64-7	0.63	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 measured	28		

First-aid measures after inhalation

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

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
	Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Indication of any immediate medical at	ttention 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 subst	ance or mixture
No additional information available	
5.3. Advice for firefighters	
U	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 measu	res
6.1. Personal precautions, protective equip	oment and emergency procedures
6.1.1. For non-emergency personnel	
	Safety glasses. Gloves.
Emergency procedures :	Evacuate unnecessary personnel.
6.1.2. For emergency responders	
	Equip cleanup crew with proper protection.
Emergency procedures :	Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notify a	uthorities 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 pro	ptection.
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	
-	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/persor	al protection
8.1. Control parameters	
Potassium Permanganate (7722-64-7)	

rotassium reimanganate (1722-04-1)			
	USA ACGIH	ACGIH TWA (mg/m ³)	0.1 mg/m ³
	USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	5 mg/m³ as Mn

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

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	I chemical properties
Physical state	: Liquid
Colour	: Purple.
Odour	: None.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
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
Explosive properties	: No data available
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. Rea	activity
No additional	information available
10.2. Ch	emical stability
Stable under	normal conditions.
10.3. Pos	ssibility of hazardous reactions
Not establish	ed.
10.4. Co	nditions to avoid
Direct sunligh	t. Extremely high or low temperatures.
10.5. Inc	ompatible materials
Strong reduci	ing agents. Strong acids. Strong bases.
10.6. Haz	zardous decomposition products
manganese.	oxygen. fume. Carbon monoxide. Carbon dioxide.

Potassium Permanganate, 0.2N (0.04M) Safety Data Sheet

SECTION 11: Toxicological informat	ion
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 exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and	: Based on available data, the classification criteria are not met.

symptoms Likely routes of exposure	:	Skin and eye contact
SECTION 12: Ecological information		
40.4 Testation		

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.)
2.2. Persistence and degradability	

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				
Water (7732-18-5)					
Persistence and degradability	Not established.				

12.3. Bioaccumulative potential	
Potassium Permanganate, 0.2N (0.04M)	
Bioaccumulative potential	Not established.
Potassium Permanganate (7722-64-7)	
Log Pow	-1.73 (Estimated value)
Bioaccumulative potential	Bioaccumulation: not applicable.
02/04/2014	EN (English) 4/6

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

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 consideration	3
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	
SECTION 14: Transport information	
In accordance with DOT	
No dangerous good in sense of transport regulation Additional information	רוג <u></u>
	: No supplementary information available.
	. No supprementary information available.
ADR	
Fransport document description	
Fransport 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 Substa Listed on SARA Section 313 (Specific toxic cher	
RQ (Reportable quantity, section 304 of EPA's	
List of Lists) :	
SARA Section 311/312 Hazard Classes	Reactive hazard
Water (7732-18-5)	
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory
15.2. International regulations	
CANADA	
Potassium Permanganate, 0.2N (0.04M)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
Potassium Permanganate (7722-64-7)	
Listed on the Canadian DSL (Domestic Sustance	es List) inventory.
WHMIS Classification	Class C - Oxidizing Material
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Water (7700.40.5)	
Water (7732-18-5)	
Listed on the Canadian DSL (Domestic Sustance WHMIS Classification	es List) inventory. Uncontrolled product according to WHMIS classification criteria

EU-Regulations

No additional information available

Safety Data Sheet

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

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:

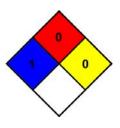
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
Aquatic Acute 3	Hazardous to the aquatic environment — AcuteHazard, Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category
Aquatic 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 NFPA reactivity

- : 0 Materials that will not burn.
- : 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	:	В

SDS US (GHS HazCom 2012)

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.