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Potassium Permanganate, 0.1N (0.02M)

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

SECTIO	ON 1: Identification of the sub	stance	/mixture and of the compa	ny/undertakir	ng
1.1.	Product identifier				
Product f	orm	: Mixtu	re		
Product r	name	: Potas	sium Permanganate, 0.1N (0.02M)		
Product c	code	: LC19	980		
1.2.	Relevant identified uses of the subs	tance or	mixture and uses advised agains	24	
	e substance/mixture		boratory and manufacturing use or		
				iry.	
1.3.	Details of the supplier of the safety of	data she	et		
LabChem Inc Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com					
1.4.	Emergency telephone number				
Emergen	cy number	: CHEI	MTREC: 1-800-424-9300 or 011-70	3-527-3887	
SECTIO	ON 2: Hazards identification				
2.1.	Classification of the substance or m	ixture			
GHS-US	classification				
Aquatic A					
•	Chronic 3 H412				
2.2.	Label elements				
SHS-US	labelling				
	tatements (GHS-US)	· H412	- Harmful to aquatic life with long la	asting effects	
	onary statements (GHS-US)		- Avoid release to the environment	0	
locatio			- Dispose of contents/container to		state and federal regulations
2.3.	Other hazards				
Other haz	zards not contributing to the	: None	under normal conditions.		
lassifica	tion				
2.4.	Unknown acute toxicity (GHS-US)				
lo data a	available				
SECTIO	ON 3: Composition/informatio	n on in	gredients		
3.1.	Substance				
Not appli	cable				
-ull text o	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
	m 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
SECTH	ON 4. First aid massures		I		
	ON 4: First aid measures				
4.1.	Description of first aid measures				
-irst-aid i	measures general		r give anything by mouth to an unco v the label where possible).	priscious person. I	If you feel unwell, seek medical advic
First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.					
	measures after skin contact				with mild soap and water, followed b
			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
	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)	

r otassidin r erinanganate (1722-04-7)			
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	

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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	d 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. 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 exposure)	: Not classified
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; lctalurus 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)	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, 0.1N (0.02M)	Potassium Permanganate, 0.1N (0.02M)				
Bioaccumulative potential	Not established.				
Potassium Permanganate (7722-64-7)					
Log Pow	-1.73 (Estimated value)				
Bioaccumulative potential	Bioaccumulation: not applicable.				

EN (English)

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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 12: Disposal consideration		
SECTION 13: Disposal considerations		
13.1. Waste treatment methods	· Dianage in a sofe menner in accordance with legal/actional regulations. Dianage of	
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 regulation	ons	
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, Populatory information		
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 chen RQ (Reportable quantity, section 304 of EPA's	100 lb	
List of Lists) :		
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 Sustance		
WHMIS Classification	Class C - Oxidizing Material	
	Lines Dubyleion 2 Subdivision R. Lovic material causing other toxic offects	
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
Water (7732-18-5)		
·		

EU-Regulations

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:

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

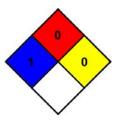
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard

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)

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