

Revision date 4/10/2017

## 1. PRODUCT AND COMPANY IDENTIFICATION

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### 1.1 Product identifiers

Product name: Potassium permanganate  
Description: minimum as  $\text{KMnO}_4$

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

Identified uses: Chemical oxidation of organic compounds for remediation

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

Company: Compass Remediation Chemicals  
2028 East Ben White Blvd  
#240-1974  
Austin, TX 78741  
Telephone: (866) 221-9167

### 1.4 Emergency telephone number

Emergency Phone #: CHEMTREC 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

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### 2.1 Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Oxidizing liquids (Category 2), H272  
Acute toxicity, Oral (Category 4), H302  
Skin corrosion (Category 1B), H314  
Serious eye damage (Category 1), H318  
Specific target organ toxicity, single exposure (Category 1, Respiratory System)  
Specific target organ toxicity, repeated exposure (Category 1, Respiratory System, Central Nervous System)  
Acute aquatic toxicity (Category 1), H400  
Chronic aquatic toxicity (Category 1), H410  
For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 GHS Label elements, including precautionary statements



Pictogram

Signal word

Danger

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## Hazard statement(s)

H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H370	Causes damage to organs (Respiratory System)
H372	Causes damage to organs (Respiratory System, Central Nervous System) through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects.

## Precautionary statement(s)

P210	Keep away from heat.
P220	Keep/store away from clothing/combustible materials.
P221	Take any precaution to avoid mixing with combustibles.
P260	Do not breathe dust
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all Contaminated clothing. Rinse skin with water/ shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/ physician.
P321	Specific treatment (see supplemental first aid instructions on this label).
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use water for extinction.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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### Substances

Chemical name	CAS number	%
Sodium Permanganate	7722-64-7	> 97.5

### Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. FIRST AID MEASURES

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### 4.1 Description of first aid measures

#### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Get medical attention immediately.

#### Skin contact

Take off immediately all contaminated clothing. Immediately flush skin with plenty of water. Get medical attention immediately. Wash contaminated clothing before reuse.

Contact with skin may leave a brown stain of insoluble manganese dioxide. This can be easily removed by washing with a mixture of equal volume of household vinegar and 3% hydrogen peroxide, followed by washing with soap and water.

#### Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids wide apart. Continue rinsing. Get medical attention immediately.

#### Ingestion

Immediately rinse mouth and drink plenty of water. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention immediately.

### 4.2 Most important symptoms/effects, acute and delayed

Contact with this material will cause burns to the skin, eyes and mucous membranes. Permanent eye damage including blindness could result.

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

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Decomposition products are alkaline. Brown stain is insoluble manganese dioxide.

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## General information

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. For personal protection, see Section 8 of the SDS. Wash contaminated clothing before reuse.

## 5. FIREFIGHTING MEASURES

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### 5.1 Suitable extinguishing media

Flood with water from a distance, water spray or fog.

### Unsuitable extinguishing media

The following extinguishing media are ineffective: Dry chemical. Foam. Carbon dioxide (CO<sub>2</sub>). Halogenated materials.

### 5.2 Specific hazards arising from the chemical

May intensify fire; oxidizer. May ignite combustibles (wood, paper, oil, clothing, etc.). Contact with incompatible materials or heat (135 °C / 275 °F) could result in violent exothermic chemical reaction. Oxidizing agent, may cause spontaneous ignition of combustible materials. By heating and fire, corrosive vapors/gases may be formed.

### 5.3 Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

### Fire-fighting equipment/instructions

Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Dike fire control water for later disposal. Water runoff can cause environmental damage.

### General fire hazards

The product is not flammable. May intensify fire; oxidizer. May ignite combustibles (wood, paper, oil, clothing, etc.). Contact with incompatible materials or heat (135 °C / 275 °F) could result in violent exothermic chemical reaction.

## 6. ACCIDENTAL RELEASE MEASURES

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

Keep unnecessary personnel away. Keep upwind. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of

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vapors and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Local authorities should be advised if significant spillages cannot be contained

## 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 6.3 Methods and materials for containment and cleaning up

Keep combustibles (wood, paper, oil, etc.) away from spilled material. Should not be released into the environment. This product is miscible in water. Stop leak if possible without any risk. Dike the spilled material, where this is possible. Clean up spills immediately by sweeping or shoveling up the material. Do not return spilled material to the original container; transfer to a clean metal or plastic drum. To clean up potassium permanganate solutions, follow either of the following two options:

Option # 1: Dilute to approximately 6% with water, and then reduce with sodium thiosulfate, a bisulfite or ferrous salt solution. The bisulfite or ferrous salt may require some dilute sulfuric acid (10% w/w) to promote reduction. Neutralize with sodium carbonate to neutral pH, if acid was used. Decant or filter and deposit sludge in approved landfill. Where permitted, the sludge may be drained into sewer with large quantities of water.

Option # 2: Absorb with inert media like diatomaceous earth or inert floor dry, collect into a drum and dispose of properly. Do not use saw dust or other incompatible media. Disposal of all materials shall be in full and strict compliance with all federal, state, and local regulations pertaining to permanganates.

To clean contaminated floors, flush with abundant quantities of water into sewer, if permitted by federal, state, and local regulations. If not, collect water and treat as described above.

## 6.4 Reference to other sections

For disposal see section 13.

## 7. HANDLING AND STORAGE

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### 7.1 Precautions for safe handling

Take any precaution to avoid mixing with combustibles. Do not get this material in your eyes, on your skin, or on your clothing. Do not breathe dust or mist or vapor of the solution. Use personal protective equipment as recommended in Section 8 of the SDS. If clothing becomes contaminated, remove and wash off immediately. Spontaneous ignition may occur in contact with cloth or paper. When using, do not eat, drink or

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smoke. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Avoid release to the environment.

## 7.2 Conditions for safe storage, including any incompatibilities

Store locked up. Keep container tightly closed and in a well-ventilated place. Store in a cool, dry place. Store away from incompatible materials (See Section 10). Store in accordance with NFPA 430 requirements for Class II oxidizers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1 Control parameters

#### Occupational exposure limits

##### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Potassium Permanganate (CAS 7722-64-7)	Ceiling	5 mg/m <sup>3</sup>

##### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Potassium Permanganate (CAS 7722-64-7)	TWA	0.1 mg/m <sup>3</sup>	Inhalable fraction.
		0.02 mg/m <sup>3</sup>	Respirable fraction.

##### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Potassium Permanganate (CAS 7722-64-7)	STEL	3 mg/m <sup>3</sup>	Fume.
	TWA	1 mg/m <sup>3</sup>	Fume.

#### Biological limit values

No biological exposure limits noted for the ingredient(s).

#### Exposure guidelines

Follow standard monitoring procedures.

### 8.2 Exposure controls

#### Appropriate engineering controls

Provide adequate general and local exhaust ventilation. An eye wash and safety shower must be available in the immediate work area.

#### Personal protective equipment

##### Eye/face protection

Wear safety glasses with side shields (or goggles). Wear face shield if there is risk of splashes.

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**Skin protection****Hand protection**

Wear chemical-resistant, impervious gloves. Use protective gloves made of: Rubber or plastic.

Suitable gloves can be recommended by the glove supplier.

**Other**

Wear appropriate chemical resistant clothing. Rubber or plastic apron.

**Respiratory protection**

In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.

Measurement Element: Manganese (Mn)

10 mg/m<sup>3</sup>

Any particulate respirator equipped with an N95, R95, or P95 filter (including N95, R95, and P95 filtering face pieces) except quarter-mask respirators. The following filters may also be used: N99, R99, P99, N100, R100 or P100.

Any supplied-air respirator.

25 mg/m<sup>3</sup>

Any supplied-air respirator operated in a continuous-flow mode.

Any powered, air-purifying respirator with a high-efficiency particulate filter.

50 mg/m<sup>3</sup>

Any air-purifying, full-face piece respirator equipped with an N100, R100, or P100 filter.

Any supplied-air respirator with a tight-fitting face piece that is operated in a continuous-flow mode.

Respiratory protection cont.

Any powered, air-purifying respirator with a tight-fitting face piece and a high-efficiency particulate filter.

Any self-contained breathing apparatus with a full face piece. Any supplied-air respirator with a full face piece.

500 mg/m<sup>3</sup>

Any supplied-air respirator operated in a pressure-demand or other positive-pressure mode.

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Emergency or planned entry into unknown concentrations or IDLH conditions -  
Any self-contained breathing apparatus that has a full face piece and is operated in a pressure-demand or other positive-pressure mode.

Escape

Any air-purifying, full-face piece respirator equipped with an N100, R100, or P100 filter. Any appropriate escape-type, self-contained breathing apparatus.

## Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

## General hygiene Considerations

When using, do not eat, drink or smoke. Keep from contact with clothing and other combustible materials. Remove and wash contaminated clothing promptly. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1 Information on basic physical and chemical properties

a) Appearance Form:	Dark purple solid with metallic luster.
b) Odor	Odorless
c) Odor Threshold	No data available
d) pH	Not applicable
e) Melting point/freezing point	Starts to decompose with evolution of oxygen (O <sub>2</sub> ) at temperatures above 150 °C. Once initiated, the decomposition is exothermic and self-sustaining.
f) Initial boiling point and boiling range	Not applicable
g) Flash point	Not applicable
h) Evaporation rate	Not applicable
i) Flammability (solid, gas)	Non flammable
j) Upper/lower flammability or explosive limits	Not applicable
k) Vapor pressure	< 0 kPa at 25°C
l) Vapor density	Not applicable
m) Relative density	2.7 (20 °C) ( Water = 1)
n) Water solubility	6 % (20 °C)
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available



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q) Decomposition temperature	464 °F (240 °C)
r) Viscosity	No data available

## Other Information

Density	2.70 g/cm <sup>3</sup>
Explosive properties	Not explosive. Can explode in contact with sulfuric acid, peroxides, and metal powders.
Molecular formula	H-Mn-O <sub>4</sub> .K
Molecular weight	158.03 g/mol
	158.03
Oxidizing properties	Strong oxidizing agent.

## 10. STABILITY AND REACTIVITY

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### 10.1 Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

### 10.2 Chemical stability

Stable at normal conditions.

### 10.3 Possibility of hazardous reactions

Contact with combustible material may cause fire. Can explode in contact with sulfuric acid, peroxides and metal powders. Starts to decompose with evolution of oxygen (O<sub>2</sub>) at temperatures above 150 °C. Once initiated, the decomposition is exothermic and self-sustaining.

### 10.4 Conditions to avoid

Contact with incompatible materials or heat (135 °C / 275 °F) could result in violent exothermic chemical reaction.

### 10.5 Incompatible materials

Acids. Peroxides. Reducing agents. Combustible material. Metal powders. Contact with hydrochloric acid liberates chlorine gas.

### 10.6 Hazardous decomposition products

By heating and fire, corrosive vapors/gases may be formed.

## 11. TOXICOLOGICAL INFORMATION

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### 11.1 Information on toxicological effects

#### Information on likely routes of exposure

<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	May cause irritation to the respiratory system.

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**Skin contact** Causes severe skin burns.  
**Eye contact** Causes serious eye damage.

## Symptoms related to the physical, chemical and toxicological characteristics

Contact with this material will cause burns to the skin, eyes and mucous membranes. Permanent eye damage including blindness could result.

## Information on toxicological effects

**Acute toxicity** Harmful if swallowed.

Components	Species	Test Results
Potassium permanganate (CAS 7722-64-7)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	2000 mg/kg
<i>Oral</i>		
LD50	Rat	2000 mg/kg

**Skin corrosion/irritation** Causes severe skin burns.

**Serious eye damage/eye irritation** Causes serious eye damage

### Respiratory or skin sensitization

**Respiratory sensitization** Not classified.

**Skin sensitization** Not classified.

**Germ cell mutagenicity** Not classified.

**Carcinogenicity** Not classified.

**Reproductive toxicity** Not classified.

**Specific target organ toxicity - single exposure** Causes damage to organs (respiratory system).

**Specific target organ toxicity - repeated exposure** Causes damage to organs (respiratory system, central nervous system) through prolonged or repeated exposure.

**Aspiration hazard** Not classified.

## Chronic effects

May cause damage to respiratory system. Prolonged exposure, usually over many years, to manganese oxide fume/dust can lead to chronic manganese poisoning, chiefly affecting the central nervous system. Chronic effects Chronic effects are not expected when this product is used as intended.

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## 12. ECOLOGICAL INFORMATION

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### 12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

Expected to be readily converted by oxidizable materials to insoluble manganese oxide.

### 12.3 Bioaccumulative potential

Potential to bioaccumulate is low.

### 12.4 Mobility in soil

The product is miscible with water. May spread in water systems.

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Other adverse effects

None known.

## 13. DISPOSAL CONSIDERATIONS

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<b>Disposal instructions</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazardous waste code</b>	D001: Ignitable waste The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues/ Unused products</b>	Do not allow this material to drain into sewers/water supplies.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Rinse container at least three times to an absence of pink color before disposing. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORT INFORMATION

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### DOT (US)

UN number: 1490    Class: 5.1    Packing group: II  
Proper shipping name:    Potassium permanganate

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<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Special provisions</b>	IB8, IP2, IP4, T3, TP33
<b>Packaging exceptions</b>	152
<b>Packaging non bulk</b>	212
<b>Packaging bulk</b>	240

## IATA

<b>UN number</b>	UN1490
<b>UN proper shipping name</b>	Potassium permanganate
<b>Transport hazard class(es)</b>	
<b>Class</b>	5.1
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	5.1
<b>Packing group</b>	II
<b>Environmental hazards</b>	Yes
<b>ERG Code</b>	5L
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

## IMDG

<b>UN number</b>	UN1490
<b>UN proper shipping name</b>	Potassium permanganate
<b>Transport hazard class(es)</b>	
<b>Class</b>	5.1
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	5.1
<b>Packing group</b>	II
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>EmS</b>	F-H, S-Q
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable

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## 15. REGULATORY INFORMATION

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**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.  
  
Drug Enforcement Administration (DEA) (21 CFR 1310.02 (b) 8: List II chemical.  
  
Department of Homeland Security (DHS) Chemical Facility Anti-Terrorism Standards (6 CFR 27, Appendix A): Listed.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Potassium permanganate (CAS 7722-64-7) LISTED

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

Hazard categories Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical**

Yes

**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Potassium Permanganate	7722-64-7	> 97.5

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Potassium permanganate (CAS 7722-64-7)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)**

Not regulated.

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**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

Potassium permanganate (CAS 7722-64-7) 6579

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

Potassium permanganate (CAS 7722-64-7) 15 % wt

**DEA Exempt Chemical Mixtures Code Number**

Potassium permanganate (CAS 7722-64-7) 6579

**US state regulations**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

California OSH Hazardous Substance List: Listed.

**US. Massachusetts RTK - Substance List**

Potassium permanganate (CAS 7722-64-7)

**US. New Jersey Worker and Community Right-to-Know Act**

Potassium permanganate (CAS 7722-64-7)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Potassium permanganate (CAS 7722-64-7)

**US. Rhode Island RTK**

Potassium permanganate (CAS 7722-64-7)

**US. California Proposition 65**

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT):  
Listed substance**

Not listed.

## 16. OTHER INFORMATION

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**Full text of H-Statements referred to under sections 2 and 3.**

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Ox. Sol.	Oxidizing solids
Skin Corr.	Skin corrosion

# SAFETY DATA SHEET - POTASSIUM PERMANGANATE

## NFPA Rating



## List of abbreviations

GHS: Globally Harmonized System of Classification and Labeling of hazardous properties of Chemicals.  
TWA: Time weighted average. LD50: Lethal Dose, 50%.  
LC50: Lethal Concentration, 50%.  
IMDG: International Maritime Dangerous Goods. IATA: International Air Transport Association.  
MARPOL: International Convention for the Prevention of Pollution from Ships.

## Disclaimer

The information contained herein is accurate to the best of our knowledge. However, data, safety standards and government regulations are subject to change and, therefore, holders and users should satisfy themselves that they are aware of all current data and regulations relevant to their particular use of product. COMPASS REMEDIATION CHEMICALS DISCLAIMS ALL LIABILITY FOR RELIANCE ON THE COMPLETENESS OR ACCURACY OR THE INFORMATION INCLUDED HEREIN. COMPASS REMEDIATION CHEMICALS MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR USE OR PURPOSE OF THE PRODUCT DESCRIBED HEREIN. All conditions relating to storage, handling, and use of the product are beyond the control of Compass Remediation Chemicals and shall be the sole responsibility of the holder or user of the product.