

## SAFETY DATA SHEET

## 1. Product and Company Identification

**Pro Pot Perm Product identifier** Other means of identification Not available.

Recommended use

Recommended restrictions Manufacturer information

Regeneration of greensand iron filters

Pro Products LLC 7201 Engle Road

None known

Fort Wayne, IN 46804-5875 US

Phone: 260-483-2519

Emergency Phone: 1-800-424-9300 (CHEMTREC)

## 2. Hazards Identification

Oxidizing solids Category 2 Physical hazards **Health hazards** Acute toxicity, oral Category 4 Skin corrosion/irritation Category 1B Serious eye damage/eye irritation Category 1 Specific target organ toxicity, single exposure Category 1 Specific target organ toxicity, repeated Category 1

exposure

**Environmental hazards OSHA** defined hazards

Not classified. Not classified.

Label elements



Signal word Danger

May intensify fire; oxidizer. **Hazard statement** Harmful if swallowed.

Causes severe skin burns and eye damage.

Causes damage to organs.

Causes damage to organs through prolonged or repeated exposure.

**Precautionary statement** 

Prevention Keep away from heat. Take any precaution to avoid mixing with combustibles.

Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not

breathe dust. Wear protective gloves/eye protection/face protection.

In case of fire: Use appropriate media to extinguish.

Response If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse. Specific treatment (see information on this label).

Immediately call a poison center/doctor.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

Store locked up. Storage

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information 100% of the mixture consists of component(s) of unknown acute inhalation toxicity. 100% of the

mixture consists of component(s) of unknown acute dermal toxicity.

## 3. Composition/Information on Ingredients

#### **Substance**

#13208 Page: 1 of 8 Issue date 23-February-2016 **Chemical name** Common name and synonyms **CAS** number Potassium permanganate 7722-64-7 60 - 100US GHS: The exact percentage (concentration) of composition has been withheld as a trade **Composition comments** secret in accordance with paragraph (i) of §1910.1200. 4. First Aid Measures Inhalation If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor/. Skin contact If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a poison center/doctor/. Specific treatment (see information on this label). If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and Eye contact easy to do. Continue rinsing. Immediately call a poison center/doctor. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center/doctor/. Ingestion Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye Most important symptoms/effects, acute and damage including blindness could result. Skin irritation. May cause redness and pain. delayed Indication of immediate Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed. medical attention and special treatment needed **General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Avoid contact with eyes and skin. Keep out of reach of children. 5. Fire Fighting Measures Water. Suitable extinguishing media None known. Unsuitable extinguishing media Specific hazards arising from May intensify fire; oxidizer. Container may explode in heat of fire. May decompose spontaneously if exposed to temperatures above 150°C. Increases flammability of combustible materials. the chemical Special protective equipment Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. and precautions for firefighters In the event of fire, cool tanks with water spray. Move containers from fire area if you can do so Fire-fighting without risk. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if equipment/instructions possible. If not, withdraw and let fire burn out. Specific methods Cool containers exposed to flames with water until well after the fire is out. General fire hazards May intensify fire; oxidizer. Oxides of manganese. Oxygen. **Hazardous combustion** products **Explosion data** Not available. Sensitivity to mechanical impact Not available. Sensitivity to static discharge 6. Accidental Release Measures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch Personal precautions, protective equipment and damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate

emergency procedures

closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

#13208 Page: 2 of 8 Issue date 23-February-2016

## 7. Handling and Storage

#### Precautions for safe handling

Keep away from heat. Take any precaution to avoid mixing with combustibles. Do not get this material in contact with eyes. Do not taste or swallow. Avoid contact with skin. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Use care in handling/storage. Avoid release to the environment. Do not empty into drains.

# Conditions for safe storage, including any incompatibilities

Keep away from heat. Store locked up. Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS). Do not store near combustible materials.

## 8. Exposure Controls/Personal Protection

#### Occupational exposure limits

Material	туре	value
Pro Pot Perm	Ceiling	5 mg/m3
Components	Туре	Value
Potassium permanganate (CAS 7722-64-7)	Ceiling	5 mg/m3

#### **US. ACGIH Threshold Limit Values**

Material	Туре	Value	Form
Pro Pot Perm	TWA	0.1 mg/m3	Inhalable fraction.
Components	Typo	0.02 mg/m3	Respirable fraction.  Form
Components	Туре	Value	Form
Potassium permanganate (CAS 7722-64-7)	TWA	0.1 mg/m3	Inhalable fraction.
,		0.02 mg/m3	Respirable fraction.

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

Material	Туре	Value	Form	
Pro Pot Perm	STEL	3 mg/m3	Fume.	
	TWA	1 mg/m3	Fume.	
Components	Туре	Value	Form	
Potassium permanganate (CAS 7722-64-7)	STEL	3 mg/m3	Fume.	
	TWA	1 mg/m3	Fume.	

## **Biological limit values**

Appropriate engineering

controls

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

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Chemical splash goggles.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Wear appropriate chemical resistant clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Not applicable.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing and protective equipment to remove contaminants.

## 9. Physical and Chemical Properties

AppearanceCrystalsPhysical stateSolid.FormSolid.

**Color** Dark Metallic Purple

Odor Odorless
Odor threshold Not available.

#13208 Page: 3 of 8 Issue date 23-February-2016

pН Not available Not available. Melting point/freezing point Initial boiling point and boiling Not applicable

range

Pour point Not available.

2.7 Specific gravity

**Partition coefficient** Not available

(n-octanol/water)

None Flash point

**Evaporation rate** Not applicable Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not applicable

Flammability limit - upper

Not applicable

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

Vapor pressure Not applicable Vapor density Not applicable Relative density Not available. Partially soluble Solubility(ies) **Auto-ignition temperature** Not applicable 464 °F (240 °C) **Decomposition temperature** Not available. **Viscosity** 

Other information

Molecular formula H-Mn-O4.K Molecular weight 158.03 g/mol

Percent volatile

## 10. Stability and Reactivity

Reactivity This product may react with acids. This product may react with oxidizing agents.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Chemical stability** Material is stable under normal conditions.

Conditions to avoid Heat, open flames, static discharge, sparks and other ignition sources. Contact with incompatible

materials.

Incompatible materials Acids. Oxidizers. Reducing agents. Metals. Organic materials. Combustible materials. Hydrogen

peroxide.

Hazardous decomposition

products

Oxides of manganese. Oxygen.

## 11. Toxicological Information

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

Harmful if swallowed. Ingestion

Inhalation Prolonged inhalation may be harmful.

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

Symptoms related to the physical, chemical and toxicological characteristics Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye

damage including blindness could result. May cause redness and pain.

Information on toxicological effects

Harmful if swallowed. **Acute toxicity** 

#13208 Page: 4 of 8 Issue date 23-February-2016 **Product Test Results Species** Pro Pot Perm Acute Oral LD50 810 mg/kg Guinea pig Mouse 750 mg/kg Rat 750 mg/kg Components **Species Test Results** 

Potassium permanganate (CAS 7722-64-7)

Acute

Dermal

LD50 Not available

Inhalation

LC50 Not available

Oral

LD50 Guinea pig 810 mg/kg

Mouse 1500 mg/kg, CCOHS

750 mg/kg

Rat 1090 mg/kg, CCOHS

750 mg/kg

Skin corrosion/irritation Causes severe burns.

Exposure minutesNot available.Erythema valueNot available.Oedema valueNot available.

Serious eye damage/eye

irritation

Causes serious eye damage.

Corneal opacity value Not available.

Iris lesion value Not available.

Conjunctival reddening Not available.

value

Conjunctival oedema value Not available.

Recover days Not available.

Respiratory or skin sensitization

Respiratory sensitization Not available.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

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

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Teratogenicity Not classified.

Specific target organ toxicity -

single exposure

Causes damage to organs.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard Not classified.

**Chronic effects** Prolonged inhalation may be harmful.

Further information Not available.

Name of Toxicologically Not available.

Synergistic Products

#13208 Page: 5 of 8 Issue date 23-February-2016

		12. Ecological Information	
Ecotoxicity	See below		
Ecotoxicological data			
Product		Species	Test Results
Pro Pot Perm			
Aquatic			
Crustacea	EC50	Amphipod (Crangonyx pseudogracilis)	0.86 - 1.12 mg/L, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.275 - 0.339 mg/L, 96 hours
Components		Species	Test Results
Potassium permanganate (CAS 7	7722-64-7)		
Aquatic			
Crustacea	EC50	Amphipod (Crangonyx pseudogracilis)	0.86 - 1.12 mg/L, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.275 - 0.339 mg/L, 96 hours
Persistence and degradability	No data is av	railable on the degradability of this product.	
Bioaccumulative potential	No data available.		
Mobility in soil	No data avai	able.	
Mobility in general	Not available		
Other adverse effects	Not available		
		13. Disposal Considerations	
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.		
Local disposal regulations	Dispose in accordance with all applicable regulations.		
Hazardous wasto codo	The waste ende should be assigned in discussion between the user, the producer and the waste		

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

## 14. Transport Information

Canada: TDG Proof of Classification: In accordance with Part 2.2.1 (SOR/2014-152) of the General

Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue. If applicable, the technical name and the classification of

the product will appear below.

**U.S. Department of Transportation (DOT)** 

Basic shipping requirements:

**UN number** UN1490

Potassium permanganate, mixture Proper shipping name

**Hazard class Packing group** 

**Special provisions** IB8, IP2, IP4, T3, TP33

Packaging exceptions 152 212 Packaging non bulk 240 Packaging bulk

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

**UN number** UN1490

POTASSIUM PERMANGANATE Proper shipping name

5.1 **Hazard class** Ш **Packing group** 

#13208 Page: 6 of 8 Issue date 23-February-2016



**TDG** 



## 15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Canada WHMIS Ingredient Disclosure: Listed substance

Potassium permanganate (CAS 7722-64-7) Listed.

**WHMIS status** Controlled

Class C - Oxidizing Material, Class D - Division 2B, Class E - Corrosive Material WHMIS classification

WHMIS labeling







**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Not regulated.

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

Potassium permanganate (CAS 7722-64-7)

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

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories** 

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

**SARA 302 Extremely** hazardous substance

SARA 311/312 Hazardous

Yes

chemical

SARA 313 (TRI reporting)

**Chemical name CAS** number % by wt. 7722-64-7 60 - 100 Potassium permanganate

## 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.

Clean Water Act (CWA) Section 112(r) (40 CFR

68.130)

Safe Drinking Water Act

(SDWA)

Not regulated.

**Food and Drug** Administration (FDA) Not regulated.

Hazardous substance

**US** state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### **US - Illinois Chemical Safety Act: Listed substance**

Potassium permanganate (CAS 7722-64-7)

#### **US - Minnesota Haz Subs: Listed substance**

Potassium permanganate (CAS 7722-64-7)

#### US - New Jersey RTK - Substances: Listed substance

Potassium permanganate (CAS 7722-64-7)

#### US - North Carolina Toxic Air Pollutants: Listed substance

Potassium permanganate (CAS 7722-64-7)

## US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

#### **US. Massachusetts RTK - Substance List**

Potassium permanganate (CAS 7722-64-7)

### US. Pennsylvania RTK - Hazardous Substances

Potassium permanganate (CAS 7722-64-7)

#### **US. Rhode Island RTK**

Potassium permanganate (CAS 7722-64-7)

## **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### Inventory status

Country(s) or region Inventory name On inventory (yes/no)\* Canada Domestic Substances List (DSL) Yes Canada Non-Domestic Substances List (NDSL) Nο United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

### 16. Other Information







Disclaimer

The data contained in this material safety data sheet was obtained from sources that were technically accurate, reliable, and state of the art when this document was prepared. If data was unavailable to complete certain sections, the absence of that data is identified in this document. Because the supplier cannot know the exact circumstances during actual use of this product, other hazards, exposure scenarios, disposal considerations, and regulations may apply and it is the responsibility of the user to read and understand the product label and this document before use. Do not use the product for purposes other than those stated in Section 1.

Issue date 23-February-2016 23-February-2016 Effective date 23-February-2019 **Expiry date** 

**Further information** For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

Dell Tech Laboratories, Ltd. Phone: (519) 858-5021 Prepared by

Other information This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication

Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of

Chemicals (GHS).

Redbook revision #3, 1/10/14