

# SAFETY DATA SHEET

### 1. Product and Company Identification

**Product identifier Pro Pot Perm Plus** 

Other means of identification Not available

Recommended use Regeneration of greensand iron filters

Recommended restrictions None known. Pro Products LLC Manufacturer information 7201 Engle Road

Fort Wayne, IN 46804-5875 US

Phone: 260-483-2519

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

Supplier See above.

#### 2. Hazards Identification

**Physical hazards** Oxidizing solids Category 2 Health hazards Acute toxicity, oral Category 4 Skin corrosion/irritation Category 1B Category 1 Serious eye damage/eye irritation

Specific target organ toxicity, single exposure Category 1 Specific target organ toxicity, repeated Category 1 exposure

Not classified. **Environmental hazards** WHMIS 2015 defined hazards Not classified

Label elements



Signal word Danger

**Hazard statement** May intensify fire; oxidizer. 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** 

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevention

Keep away from clothing and other combustible materials. Wear protective gloves/eye

protection/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using

this product. Do not breathe dust.

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 or shower. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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 easy to do. Continue rinsing.

IF exposed or concerned: Call a POISON CENTER/doctor.

Store locked up. Storage

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

WHMIS 2015: Health Hazard(s) not otherwise classified

(HHNOC)

None known

None known

WHMIS 2015: Physical Hazard(s) not otherwise

classified (PHNOC)

Hazard(s) not otherwise classified (HNOC)

None known.

**Supplemental information** 

None.

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	3. Composition/Information on I	<u> </u>	
Mixture			
Chemical name	Common name and synonyms	CAS number	<u>%</u>
Potassium permanganate		7722-64-7	75
All concentrations are in percent by	y weight unless ingredient is a gas. Gas concer	ntrations are in percent by volu	ime.
	4. First Aid Measures		
Inhalation	IF INHALED: Remove person to fresh air and POISON CENTER/doctor.	keep comfortable for breathin	ng. Immediately call a
Skin contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing before reuse. Immedia treatment (see information on this label).		
Eye contact	IF IN EYES: Rinse cautiously with water for sand easy to do. Continue rinsing. Immediately		
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT indu CENTER/doctor.	ice vomiting. Immediately call	a POISON
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.		
Indication of immediate medical attention and special treatment needed	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.		
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. Wear rubber gloves and safety glasses with side shields. Keep out of reach of children.		
	5. Fire Fighting Measure	es	
Suitable extinguishing media	Flood with water from a distance.		
Unsuitable extinguishing media	Dry chemical. Foam. Carbon dioxide. Do not	use halogenated foam.	
Specific hazards arising from the chemical	May intensify fire; oxidizer. Container may explode in heat of fire. May decompose spontaneous exposed to temperatures above 150°C. Increases flammability of combustible materials.		
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.		ant coat, helmet with
Fire-fighting equipment/instructions	In the event of fire, cool tanks with water spray. Move containers from fire area if you can do so without risk. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if 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.		
Hazardous combustion products	May include and are not limited to: Oxides of	manganese. Oxygen.	
	6. Accidental Release Meas	sures	
Personal precautions, protective equipment and emergency procedures	damaged containers or spilled material unless closed spaces before entering them. Local au	o unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not to aged containers or spilled material unless wearing appropriate protective clothing. Ventilated spaces before entering them. Local authorities should be advised if significant spillages of 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. Stop the flow of material, if this i without risk. Prevent entry into waterways, sewer, basements or confined areas. Following produce recovery, flush area with water. For waste disposal, see section 13 of the SDS.		ow of material, if this is reas. Following product
Environmental precautions	Avoid release to the environment. Contact loc environment. Prevent further leakage or spilla discharge into drains, water courses or onto t	age if safe to do so. Do not cor	ge to drain/aquatic taminate water. Avoid
	7. Handling and Storag	e	
Precautions for safe handling	Keep away from heat. Take any precaution to material in contact with eyes. Do not taste or exposure. Avoid contact with clothing. Provide protective equipment. Observe good industrial smoke. Wash hands thoroughly after handling environment. Do not empty into drains.	swallow. Avoid contact with st e adequate ventilation. Wear a al hygiene practices. When usi	kin. Avoid prolonged appropriate personal ng, do not eat, drink or

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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

Canada, Alberta	OFLs (Occu	national Healt	h & Safety	Code S	chedule 1	Table 2)

Components	Туре	Value	
Potassium permanganate	TWA	0.2 mg/m3	
(CAS 7722-64-7)		-	

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	
Potassium permanganate (CAS 7722-64-7)	TWA	0.2 mg/m3	

### Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Туре	Value	Form
Potassium permanganate (CAS 7722-64-7)	TWA	0.1 mg/m3	Inhalable fraction.
(0/10/1/22/04/1)		0.02 ma/m3	Respirable fraction.

#### Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	, Value	
Potassium permanganate (CAS 7722-64-7)	TWA	0.2 mg/m3	

# Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value	Form	
Potassium permanganate	TWA	5 mg/m3	Dust.	
(CAS 7722-64-7)				

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

Components	Type	Value	
Potassium permanganate	Ceiling	5 mg/m3	
(CAS 7722-64-7)			

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

Components	Туре	Value	Form
Potassium permanganate (CAS 7722-64-7)	TWA	0.1 mg/m3	Inhalable fraction.
(OAO 1122-04-1)		0.02 mg/m3	Respirable fraction.

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

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

#### **Biological limit values** No biological exposure limits noted for the ingredient(s).

### Appropriate engineering controls

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	

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

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

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.

#23384 Page: 3 of 8 Issue date 06-July-2017 9. Physical and Chemical Properties

Crystals **Appearance** Physical state Solid. Solid. **Form** 

Color Dark Metallic Purple

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

range

Not available. Pour point

2.7 Specific gravity

Not available Partition coefficient

(n-octanol/water)

Flash point None

**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

Not available.

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. Vapor pressure Not applicable Not applicable Vapor density Relative density Not available. Solubility(ies) Partially soluble **Auto-ignition temperature** Not applicable Not available. **Decomposition temperature** 

Other information

Percent volatile 0

### 10. Stability and Reactivity

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

Possibility of hazardous

reactions

Viscosity

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.

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

peroxide.

Hazardous decomposition

products

May include and are not limited to: 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.

#23384 Page: 4 of 8 Issue date 06-July-2017 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

Acute toxicity Harmful if swallowed.

Components Species Test Results

Potassium permanganate (CAS 7722-64-7)

Acute Dermal

LD50 Rat > 2000 mg/kg, 24 Hours, ECHA

Inhalation

LC50 Not available

Oral

LD50 Guinea pig 810 mg/kg, HSDB

Mouse 1500 mg/kg, CCOHS

750 mg/kg, HSDB

Rat > 2000 mg/kg, ECHA

1090 mg/kg, CCOHS

750 mg/kg, HSDB

**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 valueNot available.Recover daysNot available.

Respiratory or skin sensitization

Respiratory sensitization Not available.

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

**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.

Canada - Manitoba OELs: carcinogenicity

MANGANESE ELEMENTAL AND INORGANIC
COMPOUNDS, AS MN, INHALABLE FRACTION (CAS

7722-64-7)

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.

12. Ecological Information

**Ecotoxicity** See below

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Ecotoxicological data
Components Species

Potassium permanganate (CAS 7722-64-7)

Aquatic

Crustacea EC50 Amphipod (Crangonyx pseudogracilis) 0.86 - 1.12 mg/L, 48 hours

Fish LC50 Rainbow trout, donaldson trout 0.275 - 0.339 mg/L, 96 hours

(Oncorhynchus mykiss)

**Persistence and degradability** No data is available on the degradability of this product.

Bioaccumulative potentialNo data available.Mobility in soilNo data available.Mobility in generalNot available.Other adverse effectsNot 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

**Test Results** 

regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

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).

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

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

emptied.

#### 14. Transport Information

Transport of Dangerous Goods (TDG) Proof of Classification

In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue.

# U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number UN1490

Proper shipping name Potassium permanganate, mixture

Hazard class Limited Quantity - US

Packing group

Special provisions IB8, IP2, IP4, T3, TP33

Packaging exceptions < 2.2 pounds - Limited Quantity

Packaging non bulk 212 Packaging bulk 240

Transportation of Dangerous Goods (TDG - Canada)

**Basic shipping requirements:** 

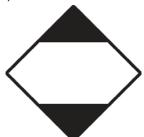
UN number UN1490

Proper shipping name POTASSIUM PERMANGANATE Hazard class Limited Quantity - Canada

Packing group

Packaging exceptions <1 kg - Limited Quantity

**DOT: TDG** 



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15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS

contains all the information required by the HPR.

Export Control List (CEPA 1999, Schedule 3)

Not listed

**Greenhouse Gases** 

Not listed.

**Precursor Control Regulations** 

Potassium permanganate (CAS 7722-64-7) Class A

**WHMIS 2015 Exemptions** Not applicable

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication US federal regulations

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)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

No

**Hazard categories** Immediate Hazard - Yes

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

**SARA 302 Extremely** 

hazardous substance

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

**Chemical name CAS** number % by wt. 7722-64-7 75

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)

Hazardous substance

Not regulated.

Clean Water Act (CWA)

Section 112(r) (40 CFR

68.130)

**US** state regulations

US - California Hazardous Substances (Director's): Listed substance

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

US - Illinois Chemical Safety Act: Listed substance

Potassium permanganate (CAS 7722-64-7)

US - Louisiana Spill Reporting: Listed substance

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

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

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

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 - Texas Effects Screening Levels: Listed substance

Potassium permanganate (CAS 7722-64-7) 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)

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#### **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)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

#### 16. Other Information

LEGEND	
Severe Serious	4
Moderate	2
Slight	1
Minimal	0





**Disclaimer** 

Issue date

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.

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

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

document.

Redbook revision #6, 1/6/17