

# SAFETY DATA SHEET

## 1. Identification

Product identifier: POTASSIUM PERMANGANATE

#### Other means of identification Product No.: 3228, 3227, H953

### Recommended use and restriction on use

Recommended use: Not available. Restrictions on use: Not known.

### Manufacturer/Importer/Supplier/Distributor information

### Manufacturer

Avantor Performance Materials, Inc.
3477 Corporate Parkway, Suite 200
Center Valley, PA 18034
Customer Service: 855-282-6867
Environmental Health & Safety
info@avantormaterials.com

#### **Emergency telephone number:**

24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

### 2. Hazard(s) identification

### **Hazard classification**

Physical hazards	
Oxidizing solids	Category 2
Health hazards	
Acute toxicity (Oral)	Category 4

### **Environmental hazards**

Acute hazards to the aquatic environment	Category
Chronic hazards to the aquatic	Category
environment	

#### Label elements

Hazard symbol:



Signal word:

Danger

Hazard statement:

Harmful if swallowed. May intensify fire; oxidizer. Very toxic to aquatic life with long lasting effects.

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### **Precautionary statement**

Prevention:	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep/Store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Avoid release to the environment.
Response:	In case of fire: Use water spray, foam, dry powder or carbon dioxide for extinction. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Collect spillage.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not None. result in GHS classification:

## 3. Composition/information on ingredients

### Substances

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
POTASSIUM PERMANGANATE		7722-64-7	90 - 100%

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

## 4. First-aid measures **General information:** Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance. Ensure that emergency personnel are aware of the material involved, and take precautions to protect themselves. Ingestion: Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting without advice from poison control center. Never give liquid to an unconscious person. Inhalation: Move to fresh air. Get medical attention if symptoms persist. If breathing stops, provide artificial respiration. For breathing difficulties, oxygen may be necessary. Skin contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes. IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms persist. Most important symptoms/effects, acute and delayed Symptoms: May cause irritation to skin, eyes, and respiratory tract.

## Indication of immediate medical attention and special treatment needed



Treatment:	Symptoms may be delayed. Treat symptomatically.	
5. Fire-fighting measures		
General fire hazards:	Oxidizing material. In case of fire and/or explosion do not breathe fumes.	
Suitable (and unsuitable) extingu	ishing media	
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.	
Unsuitable extinguishing media:	None known.	
Specific hazards arising from the chemical:	May intensify fire; oxidizer. Explosion risk in case of fire.	
Special protective equipment an	d precautions for firefighters	
Special fire fighting procedures:	Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.	
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.	
6. Accidental release measures		
Personal precautions, protective equipment and emergency procedures:	Keep unauthorized personnel away. Ventilate closed spaces before entering them. Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment.	
Methods and material for containment and cleaning up:	Remove sources of ignition. Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination. Use only non-sparking tools.	
Notification Procedures:	Dike for later disposal. Prevent entry into waterways, sewer, basements or	

Environmental precautions:

## 7. Handling and storage

Precautions for safe handling:	Do not taste or swallow. Wash hands thoroughly after handling. Avoid contact with eyes. Keep away from food, drink and animal feeding stuffs. Keep away from combustible material. Do not eat, drink or smoke when using the product. Do not smoke, use open fire or other sources of ignition. Use personal protective equipment as required. See Section 8 of the MSDS for Personal Protective Equipment. Observe good industrial hygiene practices. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Wear protective gloves/protective clothing/eye protection/face
	protection. Take any precaution to avoid mixing with combustibles. Wear fire/flame resistant/retardant clothing. Avoid contact with skin.

confined areas. Inform authorities if large amounts are involved.

spillage if safe to do so. Avoid release to the environment.

Do not contaminate water sources or sewer. Prevent further leakage or



### Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a cool, well-ventilated place. Keep container dry. Store away from incompatible materials. Eliminate sources of ignition.

## 8. Exposure controls/personal protection

## **Control parameters**

## **Occupational exposure limits**

Chemical identity	Туре	Exposure Limit values	Source
POTASSIUM PERMANGANATE - Respirable fraction as Mn	TWA	0.02 mg/m3	US. ACGIH Threshold Limit Values (02 2013)
POTASSIUM PERMANGANATE - Inhalable fraction as Mn	TWA	0.1 mg/m3	US. ACGIH Threshold Limit Values (02 2013)
POTASSIUM PERMANGANATE - Fume as Mn	STEL	3 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	1 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
POTASSIUM PERMANGANATE - as Mn	Ceiling	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	Ceiling	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

# Appropriate engineering controls

No data available.

## Individual protection measures, such as personal protective equipment

General information:	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. An eye wash and safety shower must be available in the immediate work area.
Eye/face protection:	Wear safety glasses with side shields (or goggles) and a face shield.
Skin protection Hand protection:	Chemical resistant gloves
Other:	Wear suitable protective clothing.
Respiratory protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Hygiene measures:	Provide eyewash station and safety shower. 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. Avoid contact with eyes, skin, and clothing.

## 9. Physical and chemical properties

### Appearance

Physical state:	
Form:	
Color:	

Solid Crystals or powder. purple



Odor:	Odorless
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	Approximate 240 °C
Initial boiling point and boiling range:	No data available.
Flash Point:	Not applicable
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explo	sive limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	5.40 AIR=1
Relative density:	2.7 (20 °C)
Solubility(ies)	
Solubility in water:	70 g/l
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
Other information	
Molecular weight:	158.03 g/mol (HMnO4)
10. Stability and reactivity	

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Heat, sparks, flames. Shocks and physical damage. Contact with incompatible materials.
Incompatible materials:	Reducing agents. Flammable/combustible material. Organic compounds. Powdered metal. Alcohols. Arsenites. Bromides. Iodides. Phosphorus. Sulfuric acid. Hydrogen peroxide (H2O2) Ferrous salts. Peroxides.
Hazardous decomposition products:	Toxic metal fumes may form when heated to decomposition.

# 11. Toxicological information

Information on likely routes of Ingestion:	exposure Harmful if swallowed.
Inhalation:	May be harmful if inhaled.
Skin contact:	May cause irritation.
Eye contact:	May irritate eyes.



# Information on toxicological effects

# Acute toxicity (list all possible routes of exposure)

Oral Product:	LD 50 (Rat): 750 mg/kg
Dermal Product:	No data available.
Inhalation Product:	No data available.
Repeated dose toxicity Product:	No data available.
Skin corrosion/irritation Product:	May cause skin irritation.
Serious eye damage/eye irritatio Product:	<b>n</b> May irritate eyes.
Respiratory or skin sensitization Product:	Not a skin sensitizer.
Carcinogenicity Product:	This substance has no evidence of carcinogenic properties.
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified	
US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified	
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified	
Germ cell mutagenicity	
In vitro Product:	No mutagenic components identified
In vivo Product:	No mutagenic components identified
Reproductive toxicity Product:	No components toxic to reproduction
Specific target organ toxicity - s Product:	<b>ingle exposure</b> No data available.
Specific target organ toxicity - repeated exposureProduct:No data available.	
Aspiration hazard Product:	Not classified
Other effects:	None known.



# 12. Ecological information

# Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product:	No data available.
Specified substance(s): POTASSIUM PERMANGANATE	LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 0.267 - 0.442 mg/l Mortality LC 50 (Striped bass (Morone saxatilis), 96 h): 0.348 mg/l Mortality LC 50 (Bluegill (Lepomis macrochirus), 96 h): 0.713 - 0.959 mg/l Mortality
Aquatic invertebrates Product:	No data available.
Specified substance(s): POTASSIUM PERMANGANATE	EC 50 (Amphipod (Crangonyx pseudogracilis), 48 h): 0.86 - 1.12 mg/l Intoxication LC 50 (Zebra mussel (Dreissena polymorpha), 48 h): > 40 mg/l Mortality
Chronic hazards to the aquation	c environment:
Fish Product:	No data available.
Aquatic invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and degradability	
Biodegradation Product:	There are no data on the degradability of this product.
BOD/COD ratio Product:	No data available.
Bioaccumulative potential Bioconcentration factor (BCF) Product: No data available on bioaccumulation.	
Partition coefficient n-octand Product:	ol / water (log Kow) No data available.
Mobility in soil:	The product is water soluble and may spread in water systems.
Other adverse effects:	Very toxic to aquatic life with long lasting effects.
13. Disposal considerations	
Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated packaging:	Since emptied containers retain product residue, follow label warnings even



## after container is emptied.

## 14. Transport information

DOT	
UN number:	UN 1490
UN proper shipping name:	Potassium permanganate
Transport hazard class(es)	- /
Class(es):	5.1 5.1
Label(s): Packing group:	5.1 II
Marine Pollutant:	No
IMDG	
UN number:	UN 1490
UN proper shipping name:	POTASSIUM PERMANGANATE
Transport hazard class(es)	<b>F</b> 4
Class(es):	5.1 5.1
Label(s): EmS No.:	5.1 F-H, S-Q
Packing group: Marine Pollutant:	ll No
Manne Pollutant.	NO
ΙΑΤΑ	
UN number:	UN 1490
Proper Shipping Name:	Potassium permanganate
Transport hazard class(es):	
Class(es):	5.1
Label(s):	5.1
Marine Pollutant:	No
Packing group:	II

## 15. Regulatory information

### **US** federal regulations

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4): POTASSIUM Reportable quantity: 100 lbs.

# PERMANGANATE

## Superfund amendments and reauthorization act of 1986 (SARA)

### Hazard categories

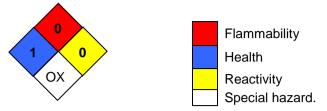
X Acute (Immediate) X Chro	nic (Delayed) X Fir	ire Reactive Pressure Genera	ting
SARA 302 Extremely hazardo None present or none		quantities.	
SARA 304 Emergency releas	e notification		
Chemical identity	RQ		
POTASSIUM	100 lbs.	_	
PERMANGANATE			



Canada DSL Inventory List:On or in compEINECS, ELINCS or NLP:On or in compJapan (ENCS) List:On or in compChina Inv. Existing Chemical Substances:Not in compliaKorea Existing Chemicals Inv. (KECI):On or in compCanada NDSL Inventory:Not in complia	5
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## **NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe OX: Oxidizing agent

Issue date:	09-04-2014
Revision date:	No data available.
Version #:	1.0
Further information:	No data available.
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