## AERCHEM INC. 320 North Walnut Bloomington, IN. 47404

Tel: 812.334.9996	Fax: 812.334.0916	Emergency:	800-424-9300				
Product Name: Potassium Permanganate  Chemical Formula: KMnO <sub>4</sub>							
				Cas No.: 7722-64-7			Haz
				ardous Ingredients: Potassium Pe		EL/TLVNot est	
Physical Data:							
Melting point (range) Approx.:			240 □ C				
Boiling point:			240 □ C				
Decomposition temperature:			N/A				
pH (depends on quality):			N/A				
Solubility in w	vater:		6.38				
Odor:			None				
Physical form	n:		Dark Purple, Crystalline solid				
Vapor pressu			N/A				
Tap density:			N/A				
Fire and Explosion I	Information:						
Flash point:			N/A				
(Auto) Ignition temperature:			N/A				
Extinguishing media to be recommended:			Water, CO <sub>2, Dry Chemical</sub>				
	to be avoided:		N/A				
Special fire and explosions precautions:			Watch for rapid burning and be prepared to				
retreat to a safe distance. Poisonous gas is			produced in fire, wear a self-contained				
breathing apparatus. Container may explode			in fire.				
Fire and explosions hazards:			May decompose spontaneously if exposed to				
intense heat, concentrated acids, hydrogen			peroxide, reducing agents or organic				
substances generally in confined areas. This			decomposition may become explosive.				
Reactivity Data:	Stable X	Un:	stable				
Hazardous Decompo	osition: With hydrochlori	c acid, chlorine	is liberated.				
Hazardous Polymerization: Will not occur							
		s, acids, charco	al, organic substances generally ferrous or				

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mercurous salts, Hypophosphites, hyposulfites, sulfites, peroxides, oxalates and heat.

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Handling and Storage Information: Must be stored to avoid contact with strong acids (such as hydrochloric, sulfuric and nitric); any organic material; or any other combustible or oxidizable solid, liquid or gas since violent reactions occur. Store in tightly closed containers in a cool well-ventilated area. Protect containers from physical damage. Do not eat, smoke or drink where potassium permanganate is handled, processed or stored. Wash hands carefully before eating or smoking. Do not dry sweep for clean up. Use a vacuum or wet method to reduce dust during cleanup.

**Leak/Spill Information:** Restrict persons not wearing protective equipment from area of spill or leak until clean up is complete. Absorb liquids in vermiculite, dry sand, earth or a similar material and deposit in sealed containers. Collect material in the most convenient and safe manner and deposit in sealed containers. Keep out of a confined space, such as a sewer, because of the possibility of an explosion. Contact the DEP and EPA for specific recommendations on disposal.

Disposal Information: Dispose of in accordance with local, state (DEP) and federal regulations(EPA).

RCRA Hazardous waste: No

CERCLA: No

## **Health Hazard Information:**

## A. Exposure/Health Effects

Threshold Limit Value: Not Est.

Primary routes of exposure: Eyes, skin, ingestion Oral LD<sub>50</sub>: 1090 mg/kg

Oral LD<sub>50</sub>:
Dermal Irritation-Rabbit:
Eve Irritation-Rabbit:

Eye Irritation-Rabbit:

OSHA PEL:

ACGIH TLV:

Known effects on other illness:

Unknown
Listed Carcinogen:

Unknown
None

**Chronic Exposures:** May cause mutations. High exposure could cause a buildup of fluid in the lungs (pulmonary Edema). This can cause death.

Unknown

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### B. First Aid:

Inhalation: Remove the person from exposure. Begin rescue breathing if breathing has stopped and CPR if heart action has stopped. Transfer promptly to a medical facility. Can irritate nose, throat and respiratory tract causing cough and chest tightness. Higher exposure could cause a buildup of fluid in the lungs (pulmonary Edema). Medical observation is recommended for 24 to 48 hours after breathing overexposure, as Pulmonary Edema may be delayed.

**Ingestion:** Can cause burning of throat, nausea, vomiting and stomach pain. A tracheotomy may be required swelling in throat blocks air. Seek medical attention.

**Skin Contact:** Can cause irritation or burns. Quickly remove contaminated clothing. Immediately wash area with large amounts of water. Seek medical attention.

**Eye Contact:** Irrigate eyes with the eyelid open for 15 minutes, occasionally lifting up upper and lower lids. Consult an opthamologist, can cause severe damage which can be permanent.

## C. Toxicity Data

TSCA: We certify that all components of this product are registered under the regulations of the toxic substances control act.

SARA Title III, Sect. 313: Not listed.

DOT regulated: Yes

Emergency response guide: 35

Hazard Classification: (5.1)

Label: Oxidizer

### **Occupational Control Measures:**

### **Airborne Exposure Limits:**

Ventilation Systems: Where possible use local exhaust.

**Personal Respirators:** For dust use a MSHA/NIOSH recommended dust mask. Where potential for high exposures exist use MSHA/NIOSH approved supplied air respirator with a full face piece operated in the positive pressure mode or with a full face piece, hood or helmet in the continuous flow mode or self contained breathing apparatus with a full face piece operated in pressure demand or other positive pressure mode.

**Skin Protection:** Rubber gloves. Protective work clothing.

**Eye Protection:** Splash proof chemical goggles/face shield when working with liquid; dust proof goggles when working with powders or dust, unless full face piece respiratory protection is worn. Eye wash fountains.