

CAMERON/GREAT LAKES INC.
2335 NW 29th Ave. Portland, OR 97210
PHONE: (503) 225-0501

MATERIAL SAFETY DATA SHEET

SECTION I – MATERIAL IDENTIFICATION AND INFORMATION

MANUFACTURER: Cameron/Great Lakes, Inc.
2335 NW 29th Ave.
Portland, OR 97210

EMERGENCIES: (503) 225-0501

PRODUCT IDENTIFICATION: CC/ZK6 CP/ZK6 KOR48/CP C/ZK6
CHEMICAL FORMULA: KMNO₄, C

SECTION II – DEPARTMENT OF TRANSPORTATION INFORMATION

Proper Shipping Name: Natural Zeolite, clinoptilolite, activated carbon
ID Number: Not regulated by DOT

Notice: KF600 media contain 1 – 2% manganese compounds (CAS Reg. No. N/A) as part of the mixture and is subject to the reporting requirements of Section 313 of Title III Superfund Amendments and Reauthorization Act of 1986 and 40CFR Part 372.

SECTION III – HAZARDOUS INGREDIENTS

<u>Material or Component</u>	<u>CAS NO. *</u>	<u>%</u>	<u>Hazard Data</u>	
Potassium permanganate KmnO ₄	7722-64-7	3-4	PEL** C**** 5mg Mn Per cubic meter of air. TLV-TWA*** 5mg Mn per cubic meter of air.	
Natural Zeolite (clinoptilolite)	12173-10-3 [†]	46	PEL TLV-TWA	N/A N/A
Carbon*	(7440-44-0)	50	N/A	N/A

* Chemical Abstract Service Number.

** OSHA Permissible Exposure Limit, manganese compounds (expressed as Mn).

*** American Conference of Governmental Hygienist, 1988/1989, TLV-TWA = the time weighted average concentration for a normal 8 hour workday and a 40 hour workweek, to which nearly all workers may be repeatedly exposed, day after day, without adverse effect.

**** Ceiling Exposure Limit or maximum exposure concentration not to be exceeded under any circumstances.

[†] All natural zeolites exempted from tolerance as a solid diluent or carrier under 40 CFR 180.1001.

SECTION IV – PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point	N/A	Specific Gravity	2.3-2.5
Vapor Pressure (mm Hg and Temperature)	N/A	Melting Point	N/A
Vapor Density (Air = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	KmnO ₄ - yes, Zeolite – no, carbon no	Water Reactive	N/A
Appearance and Odor	Purple and black Granules, Odorless		

SECTION V – FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method used)	Noncombustible	Auto-Ignition Temperature	N/A	Flammability Limits	N/A	LEL	N/A	UEI	N/A
Extinguisher Media	In case of fire use foam, CO ₂ or dry chemical.								
Special Fire Fighting Procedures	Exercise caution when responding to any chemical fire. Respiratory protection is essential								
Unusual Fire and Explosion Hazards	Contact with strong oxidizers may cause rapid combustion.								

SECTION VI – REACTIVITY HAZARD DATA

STABILITY	Conditions to Avoid
<input type="checkbox"/> Unstable	Protect containers against puncture and physical damage. Keep in dry area. Avoid exposure to water.
<input checked="" type="checkbox"/> Stable	
Incompatibility Material to Avoid	Strong Acids and oxidizable matter
Hazardous Decomposition Products	In contact with hydrochloric acid, toxic chlorine gas will evolve.
HAZARDOUS POLYMERIZATION	Conditions to Avoid
<input type="checkbox"/> May Occur	<input checked="" type="checkbox"/> Will Not Occur
	NONE

SECTION VII – HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY	<input type="checkbox"/> Inhalation	<input type="checkbox"/> Ingestion	CARCINOGEN	<input type="checkbox"/> NTP	<input type="checkbox"/> OSHA
	<input type="checkbox"/> Skin Absorption	<input checked="" type="checkbox"/> Not Hazardous	LISTED IN	<input type="checkbox"/> IARC	<input checked="" type="checkbox"/> Not Listed
HEALTH HAZARDS	Acute	May be irritating to body tissue upon contact			
	Chronic	Prolonged inhalation of manganese compounds above threshold limit may cause lung irritation and central nervous system disorders.			
Signs and Symptoms of exposure	May stain body tissue				
Medical Conditions Generally Aggravated by Exposure	Open wounds, burns, and mucous membranes				

EMERGENCY FIRST AID PROCEDURES – Seek medical assistance for further treatment, observation and support if necessary.

Eye Contact	Immediately flush with large amounts of water for 15 minutes.
Skin Contact	Immediately flush with soap and water.
Inhalation	Leave contaminated area.
Ingestion	Drink several glasses of water or milk. Seek medical attention.

SECTION VIII – CONTROL AND PROTECTIVE MEASURES

Respiratory Protection: (Specify Type)	Treat as low level nuisance dust, use NOSH/MSA#TC-21C-132
Ventilation to be used	Mechanical (general)
Protective Gloves:	Recommended
Eye Protection:	Safety glasses
Other Protective Clothing And Equipment	Regular Work clothing.
Hygenic Practices:	Wash hand before eating, wash contaminated clothing.

SECTION IX – PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES

Steps to be Taken if Material is Spilled or Released	Sweep up granules, flush floors with water into sewer if permitted by Federal, state and local regulations.
Waste Disposal Methods	Reduce potassium permanganate with hypo (10% sodium thiosulfate) solution and deposit in permitted landfill. Dispose of in accordance with local, state, and federal regulations.
Precautions to be taken in Handling and Storage	Protect containers against physical damage. Store in cool dry area in closed containers.
Other Precautions and/or Special Hazards	Avoid exposure to water and contaminated air, otherwise the media is rendered useless.

Revised: 01/01/09