

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

SAFETY DATA SHEET

SECTION I

Identity

PRODUCT IDENTIFICATION: CGL SERIES: CCS, CCR, CP, CPR, CG, CGR, WP, MR, CGAW, CGA, WNSF, Pacarb, GAC: Activated Carbon

PRODUCT USE: Use in accordance with manufacturer recommendations

MANUFACTURER: Cameron/Great Lakes, Inc.
2335 NW 29th Ave.
Portland, OR 97210
TELEPHONE: (503)225-0501
EMERGENCIES: (503) 225-0501

Date Prepared: 5/25/2015

SECTION II

Hazard(s) Identification

Hazard Classification: GHS-US

Eye Irritation	2B	H320
Respiratory Irritation	3	H335

Signal Word: Irritant

Hazard Statement: Contact may cause eye irritation: Dust may cause respiratory irritation.

Hazard Pictogram:



Precautionary statements:

P261	Avoid Breathing: dust/fume/gas/mist/vapor/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protections/face protection
P304/P340	If inhaled/Remove to fresh air
P305/P351/P338	If in eyes/rinse cautiously with water/ remove contact lenses if easy/continue rinsing
P337/P313	If eye irritation persist: get medical attention
P403/P233	Store in well ventilated place. Keep container tightly closed
P405	Store locked up
P501	Dispose container to appropriate receptacle

Other Hazards: No additional information

Acute Toxicity: No data available

SECTION III	Composition/Information on Ingredients
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Chemical Name	CAS#	%	Impurities
Carbon	7440-44-0	100	None

SECTION IV	First-Aid Measures
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Route(s) of Exposure	Symptoms	First Aid
Inhalation	Dust may cause mild respiratory irritation	Remove to fresh air. Seek medical attention if irritation persists
Skin	Dust may cause mild irritation/reddening	Wash with soap & water; seek medical attention if irritation persists.
Eye	Dust may cause eye irritation and redness.	Flush with lukewarm water for at least 15 minutes. If irritation persists seek medical attention.
Ingestion	May cause digestive track irritation.	Drink plenty of water and seek medical attention.

SECTION V	Fire Fighting Measures
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Suitable Extinguishing Media:	Flood with plenty of water, use media suitable for surrounding the fire.
Unsuitable Media:	None known.
Unusual fire & explosion hazards:	Contact with strong oxidizers may cause rapid combustion.
Special Firefighting procedures:	Exercise caution when responding to any chemical fire. Firefighters should wear full protective gear.

SECTION VI	Accidental Release Measures
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Personal Precautions:	Wear protective equipment, keep unnecessary personnel away.
General precautions:	Avoid contact with skin and eyes.
Environmental Precautions:	None
Containment & Clean Up:	Sweep up and discard in protected refuse container.
Other Information:	Not applicable

SECTION VII	Handling and Storage
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Safe Handling:	Avoid prolonged contact with eyes and skin. Use in well ventilated areas.
Safe Storage:	Store in a cool, dry and well ventilated area. Protect containers from physical damage. Keep away from oxidizers, heat and flame.

SECTION VIII	Exposure Controls/Personal Protection
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Component	OSHA PEL	ACGIH-TLV	Other Limits
Activated Carbon	Not Available	Not Available	

Engineering Guidelines	Local exhaust and general ventilation to meet exposure standards. Wet activated carbon depletes oxygen from the air creating a severe hazard to workers in enclosed or confined spaces. Sampling and work procedures for low oxygen levels should be taken whenever workers entering carbon vessels, enclosed or confined spaces. If risk of overexposure exists, wear and approved respirator.
Personal Protective Equipment	Use NIOSH approved respirator if dust generated exceeds exposure limits. Gloves, safety glasses, work clothes as determined appropriate
General Hygiene	Keep away from food and beverages, remove contaminated clothing; wash hands before eating.

SECTION IX Physical & Chemical Properties
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Physical State	Solid	Boiling point	NA
Appearance	Granular/powder	Flash Point	NA
Color	Black	Evaporation Rate	NA
Odor	None	Flammability (solid/gas) C	No Data Available
Odor Threshold	None	UEL	NA
Vapor Pressure	0	LEL	NA
pH	NA	Vapor Density	Solid
Relative Density	28 – 33 lbs/cubic ft	Partition Coefficient:	NA
Melting Point	NA	Auto ignition Temperature	No data available
Freezing Point	NA	Decomposition Temperature	NA
Solubility	None	Viscosity	NA

SECTION X Stability & Reactivity

Incompatibility:	Strong oxidizers such as ozone or liquid oxygen, and chlorine
Chemical Stability:	Stable
Conditions to Avoid:	None
Materials to Avoid:	Strong oxidizers such as ozone or liquid oxygen, and chlorine
Hazardous Decomposition Products:	Carbon Monoxide and carbon dioxide may be generated during combustion.

SECTION XI Toxicological Information

Acute Effects	
Oral LD50	Not Determined
Dermal LD 50	Not Determined
Inhalation	See Section IV
Ingestion	See Section IV
Eye Irritation	See Section IV
Skin Irritation	See Section IV
Sensitization	Not Determined
Signs and Symptoms of Exposure	Irritation and redness of eyes and skin. Dust may cause respiratory irritation

Chronic Effects:	
Carcinogenicity	Not Determined
Mutagenicity	Not Determined
Reproduction Effects	Not Determined
Developmental Factors	Not Determined

SECTION XII Ecological Information

Ecotoxicity	Not Determined
Persistence/Degradability	Not Determined
Bioaccumulation Potential	Not Determined
Mobility in Soil	Not Determined
Other Adverse Effects	Not Determined

SECTION XIII Disposal Concerns

Vacuum or shovel material in a closed container. Dispose of in accordance with all applicable local, state, federal and international regulations.

SECTION XIV Transport Information

UN Number: Not applicable
UN Name: Not applicable

Ship in accordance with DOT/ADR/RID/ADNR/IMDP/ICAO/IATA

SECTION XV Regulatory Information

SARA Title III 302	Product not listed
SARA Title III 313	Product not listed
TSCA	Product is listed
Canadian – WHMIS	Product is listed
DSL #	Product is Listed

SECTION XVI Other Information

The information and recommendations listed are believed to be true and accurate to the best of our knowledge as of the prepared date below. Cameron Great Lakes, Inc. makes no warranty with respect to same and disclaims all liability for reliance therein.

Date Prepared: May 25, 2015

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

SAFETY DATA SHEET

SECTION I

Identity

PRODUCT IDENTIFICATION: CGL SERIES: CCS-CI CC-CI CP-CI Caustic impregnated activated carbon

PRODUCT USE: Use in accordance with manufacturer recommendations

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

TELEPHONE: (503)225-0501

EMERGENCIES: (503) 225-0501

Date Prepared: 5/26/2015

SECTION II

Hazard(s) Identification

Hazard Classification: GHS-US

Eye Irritation	2A	H319
Respiratory Irritation	3	H335
Skin Irritation	2	H315
Aquatic toxicity	4	H413

Signal Word: Irritant

Hazard Statement: Contact may cause eye, and skin irritation: Dust may cause respiratory irritation. May cause long term harmful effects to aquatic life

Hazard Pictogram:



Precautionary statements:

P261	Avoid Breathing: dust/fume/gas/mist/vapor/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protections/face protection
P304/P340	If inhaled/Remove to fresh air
P305/P351/P338	If in eyes/rinse cautiously with water/ remove contact lenses if easy/continue rinsing
P337/P313	If eye irritation persist: get medical attention
P403/P233	Store in well ventilated place. Keep container tightly closed
P405	Store locked up
P501	Dispose container to appropriate receptacle

Other Hazards: The Potassium Hydroxide component of this product is classified as hazardous by OSHA.

Acute Toxicity: No data available

SECTION III	Composition/Information on Ingredients
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Chemical Name	(CAS#)	%, wt.	Impurities
Carbon	7440-44-0	≥ 85	None
Potassium Hydroxide	1310-58-3	≤ 15	None

SECTION IV	First-Aid Measures
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Route(s) of Exposure	Symptoms	First Aid
Inhalation	Dust may cause mild respiratory irritation	Remove to fresh air. Seek medical attention if irritation persists
Skin	Dust may cause mild irritation/reddening	Wash with soap & water; seek medical attention if irritation persists.
Eye	Dust may cause eye irritation and redness.	Flush with lukewarm water for at least 15 minutes. If irritation persists seek medical attention.
Ingestion	May cause digestive track irritation.	Drink plenty of water and seek medical attention.

SECTION V	Fire Fighting Measures
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Suitable Extinguishing Media:	Flood with plenty of water, use media suitable for surrounding the fire.
Unsuitable Media:	None known.
Unusual fire & explosion hazards:	Contact with strong oxidizers may cause rapid combustion.
Special Firefighting procedures:	Exercise caution when responding to any chemical fire. Firefighters should wear full protective gear.

SECTION VI	Accidental Release Measures
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Personal Precautions:	Wear protective equipment, keep unnecessary personnel away.
General precautions:	Avoid contact with skin and eyes.
Environmental Precautions:	The impregnate on this product is water soluble – activated carbon is not. Dike all entrances to sewers and drains to avoid introduction into waterways.
Containment & Clean Up:	Dike all entrances to sewers and drains. Sweep up and discard in protected refuse container.
Other Information:	Not applicable

SECTION VII	Handling and Storage
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Safe Handling:	Avoid prolonged contact with eyes and skin. Use in well ventilated areas. Wash after handling.
Safe Storage:	Store in a cool, dry and well ventilated area. Protect containers from physical damage. Keep away from oxidizers, heat and flame.

SECTION VIII	Exposure Controls/Personal Protection
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Component	OSHA PEL	ACGIH-TLV	Other Limits
Activated Carbon	Not Available	Not Available	
Alkali Potassium Salts	2mg/M ³ (Ceiling)	2mg/M ³ (Ceiling)	

Engineering Guidelines	Local exhaust and general ventilation to meet exposure standards. Wet activated carbon depletes oxygen from the air creating a severe hazard to workers in enclosed or confined spaces. Sampling and work procedures for low oxygen levels should be taken whenever workers entering carbon vessels, enclosed or confined spaces. If risk of overexposure exists, wear and approved respirator.
Personal Protective Equipment	Use NIOSH approved respirator if dust generated exceeds exposure limits. Gloves, safety glasses, work clothes as determined appropriate
General Hygiene	Keep away from food and beverages, remove contaminated clothing; wash hands before eating.

SECTION IX	Physical & Chemical Properties
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Physical State	Solid	Boiling point	NA
Appearance	Granular/powder	Flash Point	NA
Color	Black	Evaporation Rate	NA
Odor	None	Flammability (solid/gas) C	No Data Available
Odor Threshold	None	UEL	NA
Vapor Pressure	0	LEL	NA
pH	NA	Vapor Density	Solid
Relative Density	32 – 35 lbs./ft ³	Partition Coefficient:	NA
Melting Point	NA	Auto ignition Temperature	No data available
Freezing Point	NA	Decomposition Temperature	NA
Solubility	Impregnate is soluble	Viscosity	NA

SECTION X	Stability & Reactivity
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Incompatibility: Chemical Stability: Conditions to Avoid: Materials to Avoid: Hazardous Decomposition Products:	Strong oxidizers such as ozone or liquid oxygen, and chlorine Stable None Alkali metals, strong oxidizers such as ozone or liquid oxygen, and chlorine. Carbon Monoxide and carbon dioxide may be generated during combustion. Thermal oxidation can produce toxic fumes of potassium oxide.
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SECTION XI	Toxicological Information
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Acute Effects	
Oral LD50	Not Determined on finished product Potassium Hydroxide: LD ₅₀ =273 mg/kg (rat)
Dermal LD 50	Not Determined
Inhalation	See Section IV
Ingestion	See Section IV
Eye Irritation	See Section IV
Skin Irritation	See Section IV
Sensitization	Not Determined

Signs and Symptoms of Exposure	Irritation and redness of eyes and skin. Dust may cause respiratory irritation
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Chronic Effects:	
Carcinogenicity	Not Determined
Mutagenicity	Not Determined
Reproduction Effects	Not Determined
Developmental Factors	Not Determined

SECTION XII Ecological Information

Ecotoxicity	Not Determined on finished product Potassium Hydroxide: Mosquito Fish LC ₅₀ =80.0 mg/l.
Persistence/Degradability	Not Determined
Bioaccumulation Potential	Not Determined
Mobility in Soil	Not Determined
Other Adverse Effects	Not Determined on finished product. If product gets wet potassium hydroxide may leach out.

SECTION XIII Disposal Concerns

Vacuum or shovel material in a closed container. Dispose of in accordance with all applicable local, state, federal and international regulations.

SECTION XIV Transport Information
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UN Number: Not applicable
UN Name: Not applicable

Ship in accordance with DOT/ADR/RID/ADNR/IMDP/ICAO/IATA

SECTION XV Regulatory Information
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SARA Title III 302	Products not listed
SARA Title III 313	Products not listed
TSCA	Products are listed
Canadian – WHMIS	Products are listed
DSL #	Products are listed

SECTION XVI Other Information

The information and recommendations listed are believed to be true and accurate to the best of our knowledge as of the prepared date below. Cameron Great Lakes, Inc. makes no warranty with respect to same and disclaims all liability for reliance therein.

Date Prepared: May 26, 2015

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

SAFETY DATA SHEET

SECTION I

Identity

PRODUCT IDENTIFICATION: CGL SERIES: C/ZK6, C/ZK6 HC, KOR48, Potassium Permanganate Impregnated Zeolite/activated carbon blend

PRODUCT USE: Use in accordance with manufacturer recommendations

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

TELEPHONE: (503)225-0501
EMERGENCIES: (503) 225-0501

Date Prepared: 5/26/2015

SECTION II

Hazard(s) Identification

Hazard Classification: GHS-US

Eye Irritation	2B	H320
Respiratory Irritation	3	H335
Oxidizer	2	H272

Signal Word: Irritant, Oxidizer

Hazard Statement: Contact may cause eye irritation: Dust may cause respiratory irritation. May intensify fire.

Hazard Pictogram:



Precautionary statements:

P210	Keep away from heat/sparks/open flames/hot surfaces/ - No Smoking
P220	Keep/Store away from clothing /.../combustible materials
P221	Take any precautions to avoid mixing with combustibles/...
P261	Avoid Breathing: dust/fume/gas/mist/vapor/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protections/face protection
P304/P340	If inhaled/Remove to fresh air
P312	Call a poison center or doctor/physician if you feel unwell
P305/P351/P338	If in eyes/rinse cautiously with water/ remove contact lenses if easy/continue rinsing
P337/P313	If eye irritation persist: get medical attention
P403/P233	Store in well ventilated place. Keep container tightly closed
P405	Store locked up
P501	Dispose container to appropriate receptacle

Other Hazards: Toxic to aquatic life.



Acute Toxicity: No data available

SECTION III	Composition/Information on Ingredients
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Chemical Name	CAS#	%	Impurities
Activated Carbon	7440-44-0	≤ 50	None
Zeolite	12173-10-3	≥ 78	None
Water	7732-18-5	≤ 14	None
Potassium Permanganate	7722-64-7	≤ 8	None

SECTION IV	First-Aid Measures
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Route(s) of Exposure	Symptoms	First Aid
Inhalation	Dust may cause mild respiratory irritation	Remove to fresh air. Seek medical attention if irritation persists
Skin	Dust may cause mild irritation/reddening/ skin discoloration	Wash with soap & water; seek medical attention if irritation persists.
Eye	May cause eye irritation and redness.	Flush with lukewarm water for at least 15 minutes. If irritation persists seek medical attention.
Ingestion	May cause digestive track irritation. May be harmful if swallowed.	Drink plenty of water and seek medical attention.

SECTION V	Fire Fighting Measures
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Suitable Extinguishing Media:	Use media suitable for surrounding the fire.
Unsuitable Media:	None known.
Unusual fire & explosion hazards:	May intensify fire; oxidizer.
Special Firefighting procedures:	Exercise caution when responding to any chemical fire. Firefighters should wear full protective gear.

SECTION VI	Accidental Release Measures
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Personal Precautions:	Wear protective equipment, keep unnecessary personnel away.
General precautions:	Avoid contact with skin and eyes.
Environmental Precautions:	Potassium Permanganate: Do not allow to enter drains, sewers or waterways.

Containment & Clean Up: If possible stop flow of product. Sweep up and discard in protected refuse container.

Other Information: Not applicable

SECTION VII	Handling and Storage
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Safe Handling: Avoid prolonged contact with eyes and skin. Use in well ventilated areas.

Safe Storage: Store in a cool, dry and well ventilated area. Protect containers from physical damage. Keep away from heat and flame.

SECTION VIII	Exposure Controls/Personal Protection
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Component	OSHA PEL	ACGIH-TLV	Other Limits
Zeolite	Not Available	Not Available	
Potassium Permanganate	Not Available	5 mg/m ³ Ceiling	
Activated Carbon	Not Available	Not available	

Engineering Guidelines	Local exhaust and general ventilation to meet exposure standards. Wet activated carbon depletes oxygen from the air creating a severe hazard to workers in enclosed or confined spaces. Sampling and work procedures for low oxygen levels should be taken whenever workers entering carbon vessels, enclosed or confined spaces. If risk of overexposure exists, wear and approved respirator
Personal Protective Equipment	Use NIOSH approved respirator if dust generated exceeds exposure limits. Impervious gloves, safety glasses, work clothes as determined appropriate
General Hygiene	Keep away from food and beverages, remove contaminated clothing; wash hands before eating.

SECTION IX	Physical & Chemical Properties
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Physical State	Solid	Boiling point	NA
Appearance	Granular	Flash Point	NA
Color	Purple and black	Evaporation Rate	NA
Odor	None	Flammability (solid/gas) C	No Data Available
Odor Threshold	None	UEL	NA
Vapor Pressure	No data	LEL	NA
pH	NA	Vapor Density	Solid
Relative Density	59-61 lbs/cubic ft	Partition Coefficient:	NA
Melting Point	NA	Auto ignition Temperature	No data available
Freezing Point	NA	Decomposition Temperature	NA
Solubility	No Data	Viscosity	NA

SECTION X	Stability & Reactivity
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Incompatibility: None

Chemical Stability: Stable under normal conditions

Conditions to Avoid: None

Materials to Avoid: Potassium Permanganate – contact with hydrochloric acid may liberate chlorine gas.

Hazardous Decomposition Products: By heating and fire, corrosive vapors may be formed.

SECTION XI Toxicological Information

Acute Effects	
Oral LD50	Zeolite: No data available Potassium Permanganate: LD ₅₀ = 750 mg/kg
Dermal LD 50	No data available
Inhalation	See Section IV
Ingestion	See Section IV
Eye Irritation	See Section IV
Skin Irritation	See Section IV
Sensitization	Not Determined
Signs and Symptoms of Exposure	Irritation and redness of eyes and skin. Dust may cause respiratory irritation

Chronic Effects:	
Carcinogenicity	Not Determined
Mutagenicity	Not Determined
Reproduction Effects	Not Determined
Developmental Factors	Not Determined

SECTION XII Ecological Information

Ecotoxicity	Potassium Permanganate: LC ₅₀ = 1.8 mg/l rainbow trout 96 hour LC ₅₀ = 2.3 mg/l bluegill sunfish 96 hour
Persistence/Degradability	Not Determined
Bioaccumulation Potential	Potassium permanganate is low
Mobility in Soil	Not Determined
Other Adverse Effects	Not Determined

SECTION XIII Disposal Concerns

Vacuum or shovel material in a closed container. Dispose of in accordance with all applicable local, state, federal and international regulations.

SECTION XIV Transport Information

UN Number: Not applicable
UN Name: Not applicable

Ship in accordance with DOT/ADR/RID/ADNR/IMDP/ICAO/IATA

SECTION XV Regulatory Information

SARA Title III 302	Product not listed
SARA Title III 313	Manganese portion of potassium permanganate is listed
TSCA	Potassium permanganate is listed
	Activated Carbon is listed
Canadian – WHMIS	Potassium Permanganate is listed
	Activated carbon is listed

DSL #	Potassium Permanganate is listed
	Activated carbon is listed
MA RTK* – substance list:	Potassium Permanganate is listed
PA RTK hazardous substance list:	Potassium Permanganate is listed
*RTK – Right to Know	

SECTION XVI	Other Information
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The information and recommendations listed are believed to be true and accurate to the best of our knowledge as of the prepared date below. Cameron Great Lakes, Inc. makes no warranty with respect to same and disclaims all liability for reliance therein.

Date Prepared: May 26, 2015

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

SAFETY DATA SHEET

SECTION I

Identity

PRODUCT IDENTIFICATION: CGL SERIES: CCS-PA CC-PA CP-PA Phosphoric acid impregnated activated carbon

PRODUCT USE: Use in accordance with manufacturer recommendations

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

TELEPHONE: (503)225-0501
EMERGENCIES: (503) 225-0501

Date Prepared: 5/26/2015

SECTION II

Hazard(s) Identification

Hazard Classification: GHS-US

Eye Irritation	2A	H319
Respiratory Irritation	3	H335
Skin Irritation	2	H315
Aquatic toxicity	4	H413

Signal Word: Irritant

Hazard Statement: Contact may cause eye, and skin irritation: Dust may cause respiratory irritation. May cause long term harmful effects to aquatic life

Hazard Pictogram:



Precautionary statements:

P261	Avoid Breathing: dust/fume/gas/mist/vapor/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protections/face protection
P304/P340	If inhaled/Remove to fresh air
P305/P351/P338	If in eyes/rinse cautiously with water/ remove contact lenses if easy/continue rinsing
P337/P313	If eye irritation persist: get medical attention
P403/P233	Store in well ventilated place. Keep container tightly closed
P405	Store locked up
P501	Dispose container to appropriate receptacle

Other Hazards: The phosphoric acid component of this product is classified as hazardous by OSHA.

Acute Toxicity: No data available

SECTION III	Composition/Information on Ingredients
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Chemical Name	(CAS#)	%, wt.	Impurities
Carbon	7440-44-0	≥ 85	None
Phosphoric Acid	7664-38-2	≤ 15	None

SECTION IV	First-Aid Measures
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Route(s) of Exposure	Symptoms	First Aid
Inhalation	Dust may cause mild respiratory irritation	Remove to fresh air. Seek medical attention if irritation persists
Skin	Dust may cause mild irritation/reddening	Wash with soap & water; seek medical attention if irritation persists.
Eye	Dust may cause eye irritation and redness.	Flush with lukewarm water for at least 15 minutes. If irritation persists seek medical attention.
Ingestion	May cause digestive track irritation.	Drink plenty of water and seek medical attention.

SECTION V	Fire Fighting Measures
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Suitable Extinguishing Media:	Flood with plenty of water, use media suitable for surrounding the fire.
Unsuitable Media:	None known.
Unusual fire & explosion hazards:	Contact with strong oxidizers may cause rapid combustion.
Special Firefighting procedures:	Exercise caution when responding to any chemical fire. Firefighters should wear full protective gear.

SECTION VI	Accidental Release Measures
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Personal Precautions:	Wear protective equipment, keep unnecessary personnel away.
General precautions:	Avoid contact with skin and eyes.
Environmental Precautions:	The impregnate on this product is water soluble – activated carbon is not. Dike all entrances to sewers and drains to avoid introduction into waterways.
Containment & Clean Up:	Dike all entrances to sewers and drains. Sweep up and discard in protected refuse container.
Other Information:	Not applicable

SECTION VII	Handling and Storage
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Safe Handling:	Avoid prolonged contact with eyes and skin. Use in well ventilated areas. Wash after handling.
Safe Storage:	Store in a cool, dry and well ventilated area. Protect containers from physical damage. Keep away from oxidizers, heat and flame.

SECTION VIII	Exposure Controls/Personal Protection
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Component	OSHA PEL	ACGIH-TLV	Other Limits
Activated Carbon	Not Available	Not Available	
Phosphoric Acid	1mg/M ³	1mg/M ³	

Engineering Guidelines	Local exhaust and general ventilation to meet exposure standards. Wet activated carbon depletes oxygen from the air creating a severe hazard to workers in enclosed or confined spaces. Sampling and work procedures for low oxygen levels should be taken whenever workers entering carbon vessels, enclosed or confined spaces. If risk of overexposure exists, wear and approved respirator.
Personal Protective Equipment	Use NIOSH approved respirator if dust generated exceeds exposure limits. Gloves, safety glasses, work clothes as determined appropriate
General Hygiene	Keep away from food and beverages, remove contaminated clothing; wash hands before eating.

SECTION IX	Physical & Chemical Properties
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Physical State	Solid	Boiling point	NA
Appearance	Granular/powder	Flash Point	NA
Color	Black	Evaporation Rate	NA
Odor	None	Flammability (solid/gas) C	No Data Available
Odor Threshold	None	UEL	NA
Vapor Pressure	0	LEL	NA
pH	NA	Vapor Density	Solid
Relative Density	32 – 35 lbs./ft ³	Partition Coefficient:	NA
Melting Point	NA	Auto ignition Temperature	No data available
Freezing Point	NA	Decomposition Temperature	NA
Solubility	Impregnate is soluble	Viscosity	NA

SECTION X	Stability & Reactivity
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Incompatibility: Chemical Stability: Conditions to Avoid: Materials to Avoid: Hazardous Decomposition Products:	Strong oxidizers such as ozone or liquid oxygen, and chlorine Stable None Alkali metals, strong oxidizers such as ozone or liquid oxygen, and chlorine. Carbon Monoxide and carbon dioxide may be generated during combustion. Thermal oxidation can produce toxic fumes of potassium oxide.
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SECTION XI	Toxicological Information
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Acute Effects	
Oral LD50	Phosphoric acid: LD ₅₀ = 1530 mg/kg (rat)
Dermal LD 50	Phosphoric acid: LD50 = 2740 mg/kg (rabbit)
Inhalation	See Section IV
Ingestion	See Section IV
Eye Irritation	See Section IV
Skin Irritation	See Section IV
Sensitization	Not Determined

Signs and Symptoms of Exposure	Irritation and redness of eyes and skin. Dust may cause respiratory irritation
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Chronic Effects:	
Carcinogenicity	Not Determined
Mutagenicity	Not Determined
Reproduction Effects	Not Determined
Developmental Factors	Not Determined

SECTION XII Ecological Information

Ecotoxicity	Not Determined on finished product Phosphoric Acid: Mosquito Fish LC ₅₀ =138.0 mg/l (96hr)
Persistence/Degradability	Not Determined
Bioaccumulation Potential	Not Determined
Mobility in Soil	Not Determined
Other Adverse Effects	Not Determined on finished product. If product gets wet phosphoric acid may leach out.

SECTION XIII Disposal Concerns

Vacuum or shovel material in a closed container. Dispose of in accordance with all applicable local, state, federal and international regulations.

SECTION XIV Transport Information
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UN Number: Not applicable
UN Name: Not applicable

Ship in accordance with DOT/ADR/RID/ADNR/IMDP/ICAO/IATA

SECTION XV Regulatory Information
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SARA Title III 302	Not listed
SARA Title III 313	Not listed
TSCA	Products are listed
Canadian – WHMIS DSL #	Products are listed
US State	
NJ – RTK	Phosphoric acid – listed
MA-RTK	Phosphoric acid – listed
PA –RTK	Phosphoric acid – listed
RI – RTK	Phosphoric acid – listed

SECTION XVI Other Information

The information and recommendations listed are believed to be true and accurate to the best of our knowledge as of the prepared date below. Cameron Great Lakes, Inc. makes no warranty with respect to same and disclaims all liability for reliance therein.

Date Prepared: May 26, 2015

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

SAFETY DATA SHEET

SECTION I

Identity

PRODUCT IDENTIFICATION: CGL SERIES: ZK6, ZK6 HC, Potassium Permanganate Impregnated Zeolite

PRODUCT USE: Use in accordance with manufacturer recommendations

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

TELEPHONE: (503)225-0501

EMERGENCIES: (503) 225-0501

Date Prepared: 5/26/2015

SECTION II

Hazard(s) Identification

Hazard Classification: GHS-US

Eye Irritation	2B	H320
Respiratory Irritation	3	H335
Oxidizer	2	H272

Signal Word: Irritant, Oxidizer

Hazard Statement: Contact may cause eye irritation: Dust may cause respiratory irritation. May intensify fire.

Hazard Pictogram:



Precautionary statements:

P210	Keep away from heat/sparks/open flames/hot surfaces/ - No Smoking
P220	Keep/Store away from clothing /.../combustible materials
P221	Take any precautions to avoid mixing with combustibles/...
P261	Avoid Breathing: dust/fume/gas/mist/vapor/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protections/face protection
P304/P340	If inhaled/Remove to fresh air
P312	Call a poison center or doctor/physician if you feel unwell
P305/P351/P338	If in eyes/rinse cautiously with water/ remove contact lenses if easy/continue rinsing
P337/P313	If eye irritation persists: get medical attention
P403/P233	Store in well ventilated place. Keep container tightly closed
P405	Store locked up
P501	Dispose container to appropriate receptacle

Other Hazards: Toxic to aquatic life.



Acute Toxicity: No data available

SECTION III	Composition/Information on Ingredients
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Chemical Name	CAS#	%	Impurities
Zeolite	12173-10-3	≥ 78	None
Water	7732-18-5	≤ 14	None
Potassium Permanganate	7722-64-7	≤ 8	None

SECTION IV	First-Aid Measures
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Route(s) of Exposure	Symptoms	First Aid
Inhalation	Dust may cause mild respiratory irritation	Remove to fresh air. Seek medical attention if irritation persists
Skin	Dust may cause mild irritation/reddening/ skin discoloration	Wash with soap & water; seek medical attention if irritation persists.
Eye	May cause eye irritation and redness.	Flush with lukewarm water for at least 15 minutes. If irritation persists seek medical attention.
Ingestion	May cause digestive track irritation. May be harmful if swallowed.	Drink plenty of water and seek medical attention.

SECTION V	Fire Fighting Measures
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Suitable Extinguishing Media:	Use media suitable for surrounding the fire.
Unsuitable Media:	None known.
Unusual fire & explosion hazards:	May intensify fire; oxidizer.
Special Firefighting procedures:	Exercise caution when responding to any chemical fire. Firefighters should wear full protective gear.

SECTION VI	Accidental Release Measures
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Personal Precautions:	Wear protective equipment, keep unnecessary personnel away.
General precautions:	Avoid contact with skin and eyes.
Environmental Precautions:	Potassium Permanganate: Do not allow to enter drains, sewers or waterways.
Containment & Clean Up:	If possible stop flow of product. Sweep up and discard in protected refuse container.
Other Information:	Not applicable

SECTION VII	Handling and Storage
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Safe Handling: Avoid prolonged contact with eyes and skin. Use in well ventilated areas.

Safe Storage: Store in a cool, dry and well ventilated area. Protect containers from physical damage. Keep away from heat and flame.

SECTION VIII	Exposure Controls/Personal Protection
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Component	OSHA PEL	ACGIH-TLV	Other Limits
Zeolite	Not Available	Not Available	
Potassium Permanganate	Not Available	5 mg/m ³ Ceiling	

Engineering Guidelines	Local exhaust and general ventilation to meet exposure standards.
Personal Protective Equipment	Use NIOSH approved respirator if dust generated exceeds exposure limits. Impervious gloves, safety glasses, work clothes as determined appropriate
General Hygiene	Keep away from food and beverages, remove contaminated clothing; wash hands before eating.

SECTION IX	Physical & Chemical Properties
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Physical State	Solid	Boiling point	NA
Appearance	Granular	Flash Point	NA
Color	Purple	Evaporation Rate	NA
Odor	None	Flammability (solid/gas) C	No Data Available
Odor Threshold	None	UEL	NA
Vapor Pressure	No data	LEL	NA
pH	NA	Vapor Density	Solid
Relative Density	59-61 lbs/cubic ft	Partition Coefficient:	NA
Melting Point	NA	Auto ignition Temperature	No data available
Freezing Point	NA	Decomposition Temperature	NA
Solubility	No Data	Viscosity	NA

SECTION X	Stability & Reactivity
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Incompatibility: None

Chemical Stability: Stable under normal conditions

Conditions to Avoid: None

Materials to Avoid: Potassium Permanganate – contact with hydrochloric acid may liberate chlorine gas.

Hazardous Decomposition Products: By heating and fire, corrosive vapors may be formed.

SECTION XI	Toxicological Information
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Acute Effects	
Oral LD50	Zeolite: No data available Potassium Permanganate: LD ₅₀ = 750 mg/kg

Dermal LD 50	No data available
Inhalation	See Section IV
Ingestion	See Section IV
Eye Irritation	See Section IV
Skin Irritation	See Section IV
Sensitization	Not Determined
Signs and Symptoms of Exposure	Irritation and redness of eyes and skin. Dust may cause respiratory irritation

Chronic Effects:	
Carcinogenicity	Not Determined
Mutagenicity	Not Determined
Reproduction Effects	Not Determined
Developmental Factors	Not Determined

SECTION XII Ecological Information

Ecotoxicity	Potassium Permanganate: LC ₅₀ = 1.8 mg/l rainbow trout 96 hour LC ₅₀ = 2.3 mg/l bluegill sunfish 96 hour
Persistence/Degradability	Not Determined
Bioaccumulation Potential	Potassium permanganate is low
Mobility in Soil	Not Determined
Other Adverse Effects	Not Determined

SECTION XIII Disposal Concerns

Vacuum or shovel material in a closed container. Dispose of in accordance with all applicable local, state, federal and international regulations.

SECTION XIV Transport Information
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UN Number: Not applicable
UN Name: Not applicable

Ship in accordance with DOT/ADR/RID/ADNR/IMDP/ICAO/IATA

SECTION XV Regulatory Information
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SARA Title III 302	Product not listed
SARA Title III 313	Manganese portion of potassium permanganate is listed
TSCA	Potassium permanganate is listed
Canadian – WHMIS	Potassium Permanganate is listed
DSL #	Potassium Permanganate is listed
MA RTK* – substance list:	Potassium Permanganate is listed
PA RTK hazardous substance list:	Potassium Permanganate is listed

*RTK – Right to Know

SECTION XVI**Other Information**

The information and recommendations listed are believed to be true and accurate to the best of our knowledge as of the prepared date below. Cameron Great Lakes, Inc. makes no warranty with respect to same and disclaims all liability for reliance therein.

Date Prepared: May 26, 2015