

BHP Billiton Canada Inc.
Operator of the EKATI Diamond Mine



BHP Billiton EKATI Diamond Mine
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May 30, 2012

Mr. Jason Brennan
Resource Management Officer III
Aboriginal Affairs and Northern Development Canada
#16 Yellowknife Airport
Yellowknife, NT, X1A 2T2
(867) 669-2875

Dear MR Brennan

RE: Application of Envirokleen Dust Suppressant

BHP Billiton Canada Inc. (BBCI) is providing this notification to the Aboriginal Affairs and Northern Development Canada (AANDC) inspector of our intention to apply Envirokleen dust suppressant in front of the accommodations complex in lieu of DL-10 dust suppressant used in previous years at the EKATI Diamond Mine (EKATI). Due to the proximity to Kodiak Lake and the EKATI accommodations, BBCI has determined that a safer and more environmentally friendly product should be used to control dust in the area around the main accommodations building where there is high vehicle and pedestrian traffic and risk of dust to workers.

BBCI will maintain the approved dust suppressant application procedures and continue to maintain a 30m buffer zone from any waterway.

Attached is a current MSDS for Envirokleen. If there are any questions or concerns regarding the notification of application of Envirokleen, feel free to contact the undersigned.

Yours sincerely,

A handwritten signature in black ink that reads 'Claudine Lee'.

Claudine Lee, M.Sc. P.Geol.
Superintendent – Environment Operations

Attached: Envirokleen MSDS Sheet

MIDWEST INDUSTRIAL SUPPLY, INC.
P. O. BOX 8431
CANTON, OHIO 44711 U.S.A.

Emergency Phone Numbers: 330-456-3121

EnviroKleen®

Synthetic Organic Dust Control®
advanced environmental performance solution

MATERIAL SAFETY DATA SHEET

SECTION I -- IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

TRADE NAME: ENVIROKLEEN® Synthetic Organic Dust Control®
advanced environmental performance solution

CHEMICAL NAME: ISOALKANE AND BINDER SYSTEM

SYNONYMS: DUST RETARDANT AND STABILIZATION AGENT

CHEMICAL FAMILY: FORMULATED ISOALKANE AND BINDER (Patents #7,081,270 and # 7,074,266)

CAS REGISTRY NO.: PRODUCT A BLEND - NO NUMBER ASSIGNED

SECTION II -- COMPOSITION/INFORMATION ON INGREDIENTS

<u>NAME</u>	<u>%</u>	<u>CAS REG. NO.</u>
Severely hydrotreated, high viscosity synthetic iso-alkane	75 – 95 %	Non-hazardous
Polyolefin	5 – 25 %	Non-hazardous

SECTION III -- HAZARDS IDENTIFICATION

Synthetic Isoalkane May be irritating to breathing passages upon excessive heating, otherwise this product is essentially non-hazardous.
Mist 8 hour TLV-TWA = 5mg/m³ (ACGIH)

SECTION IV -- FIRST AID MEASURES

EYES: Flush eyes with flowing water at least 15 minutes, get medical attention. Do not use any eye ointment. Remove contact lenses.

INHALATION: Move subject to fresh air. If victim is not breathing perform artificial respiration. Administer oxygen if available. Keep victim warm and at rest. Seek medical attention as soon as possible.

SKIN: Flush with large amount of water or wash with soap and water. Seek medical attention if irritation persists.

INGESTION: DO NOT induce vomiting because of aspiration into the lungs. EnviroKleen has a laxative effect and will be eliminated quickly. Seek medical attention.

NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAVING CONVULSIONS.

NOTE TO PHYSICIAN: Monitor respiratory distress. If cough or difficulty breathing develops, evaluate for respiratory tract irritation, bronchitis or pneumonitis.

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SECTION V -- FIRE FIGHTING MEASURES

FLAMMABILITY:	Nonflammable, but will burn on prolonged exposure to flame or high temperature.
FLASH POINT (TEST METHOD):	>338°F (>170°C), open cup, ASTM D92, Cleveland
AUTOIGNITION TEMPERATURE:	664°F (351°C)
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Do not cut, weld, heat of drill or pressurize empty container.
MATERIALS TO AVOID:	Low fire hazard. Must be moderately heated before ignition will occur. Avoid contact with strong oxidizing agents, including peroxides, chlorine and strong acids.
PRODUCTS OF COMBUSTION:	Carbon dioxide, carbon monoxide, smoke and irritating fumes as products of incomplete combustion.

EXTINGUISHING MEDIA AND INSTRUCTIONS:

If a tank, railcar or tank truck is involved in a fire isolate for 0.5 miles in all directions. Shut off fuel to fire if it is possible to do so without hazard. If this is impossible, withdraw from the area and let the fire burn itself out under controlled conditions. Withdraw immediately in case of rising sound from venting safety device or any discoloration of the tank due to fire. Cool containing vessels with water spray in order to prevent pressure build-up, autoignition or explosion.

SMALL FIRE: use dry chemicals, foam, CO₂.

LARGE FIRE: use water spray, fog of foam. For small outdoor fires portable extinguishers may be used and SCBA (self contained breathing apparatus) may not be required. For all indoor fires and any significant outdoor fires SCBA if required. Respiratory and eye protection are required for fire fighting personnel.

SECTION VI - ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES:

ELIMINATE ALL IGNITION SOURCES. Stop leak without risk and contain spill. Absorb with inert absorbent materials such as clay or sand. Place absorbent in closed metal containers for later disposal or burn in appropriate facility. Keep spills out of sewers and open bodies of water.

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SECTION VII -- HANDLING AND STORAGE

STORAGE: Keep in a cool, dry, ventilated storage area and in closed containers. Keep away from sources of ignition and oxidizing materials.

HANDLING: KEEP AWAY FROM SOURCES OF IGNITION. Do not reuse empty containers. Practice good hygiene. Wash hands before eating. Launder clothes before reuse. Discard saturated leather goods.

SECTION VIII -- EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION: None required if good ventilation is maintained. If mist is generated by heating or spraying use a NIOSH approved organic respirator with a mist filter.

VENTILATION: Under normal handling conditions special ventilation is not necessary. If operation generates mist or fumes use ventilation of keep exposure to airborne contaminants below exposure limits.

EYE PROTECTION: Chemical splash, goggles recommended.

PROTECTIVE CLOTHING: Clothing to minimize skin contact, long sleeves, boots or shoes. For casual contact PVC gloves are suitable, for prolonged contact use neoprene or nitrile gloves.

SECTION IX -- PHYSICAL AND CHEMICAL PROPERTIES

BOILING/MELTING POINT @ 760 mm Hg:	>600°F (>316°C)
VAPOR PRESSURE mm Hg @ 20°C:	negligible at ambient temperature
SPECIFIC GRAVITY OR BULK DENSITY:	0.83
SOLUBILITY IN WATER:	insoluble in water
APPEARANCE:	viscous, clear liquid
ODOR:	none
POUR POINT:	-33°F (-36°C)
VISCOSITY (Brookfield) :	35 – 50cps @ 20°C 100 – 140cps @ 0°C 145 – 175cps @ -5°C
pH:	N/A, not an aqueous solution or emulsion
ACIDITY:	none
ALKALINITY:	none

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SECTION X -- STABILITY AND REACTIVITY

STABILITY:	Stable under normal handling conditions.
CHEMICAL INCOMPATIBILITY:	Stable stored at temperatures between -40 ⁰ F and + 180 ⁰ F.
HAZARDOUS DECOMPOSITION PRODUCTS:	Can react with strong organic oxidizing materials.
HAZARDOUS POLYMERIZATION:	Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide, smoke, hydrocarbons and irritating fumes.
CONDITIONS TO AVOID:	Does not occur under normal industrial conditions.
CORROSIVE TO METAL:	Excessive heat and flame.
	No

SECTION XI -- TOXICOLOGICAL INFORMATION

EFFECTS OF OVEREXPOSURE

INHALATION:	Inhalation is highly unlikely. However prolonged or repeated inhalation of fumes or mists may cause irritation to the respiratory tract. Product deposits in lungs may lead to fibrosis and reduced pulmonary function.
SKIN:	It is not a skin irritant. However prolonged or repeated contact may cause skin irritation, dermatitis or oil acne.
EYES:	Prolonged or repeated contact may be irritating to eyes. Will not cause permanent damage.
INGESTION:	Relatively non toxic to digestive tract.
MUTAGENIC:	Mutagenic activity test are negative toward: Salmonella Typhimurium, Salmonella-Escherichia coli and Chinese Hamster ovary.
REPRODUCTIVE TOXICITY:	Based on data to date it does not pose a reproductive risk.
CARCINOGENICITY:	

Based on studies to date EnviroKleen® is not known to be carcinogenic to humans

ACGIH (mists) - Based on available human studies, exposure to product mist alone has not demonstrated to cause human effects at levels below 5 mg/m³.
IARC - IARC group 3; cannot be classified as to carcinogenicity to humans.
NTP - No studies were found.
IRIS - No studies were found.
OSHA - OSHA PEL (8 hour TWA) = 5 mg/m³ for synthetic product mists.

SECTION XII -- ECOLOGICAL INFORMATION

EnviroKleen Aquatic Toxicity Test Results

*Methods for Measuring the Acute Toxicity of Effluents and Receiving Water to Freshwater and Marine Organisms, EPA/600/4-90/027F.

*Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, EPA/600/4-91/002.

*Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water to Marine and Estuarine Organisms, EPA/600/4-91/003.

	Ceriodaphnia dubia	Fathead minnow	Americamysis bahia	Rainbow Trout
ACUTE/SURVIVAL (mg/L)				
LC50	>1000	>1000	>1000	>1000
NOEC	1000	1000	1000	1000
LOEC	>1000	>1000	>1000	>1000
CHRONIC/SURVIVAL (mg/L)				
LC50	>1000	>1000	>1000	>1000
NOEC	1000	1000	1000	1000
LOEC	>1000	>1000	>1000	>1000
CHRONIC/GROWTH/ REPRODUCTION (mg/L)				
LC50	>1000	>1000	>1000	>1000
NOEC	1000	1000	1000	1000
LOEC	>1000	>1000	>1000	>1000

See attached test results:

1. ABC Laboratories, Inc. Americamysis bahia, Fathead minnow, Ceriodaphnia dubia.
2. ABC Laboratories, Inc. Rainbow trout

LC50 -Lethal Concentration, 50%

NOEC - No Observable Effects Concentration

LOEC - Lowest Observable Effects Concentration

The LC₅₀ level is the lethal concentration of the chemical under test that kills 50% of the test organisms in the specified amount of time. According to the EPA-540-9-85-006, suggested toxicity criteria for materials are listed in the table below.

Comparison of the EPA guidelines to the LC₅₀ levels of all species show that EnviroKleen® is practically non-toxic to all species. When used and applied properly EnviroKleen® is not known to pose any ecological problems.

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SECTION XIII -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Consult your local authorities for regulations. Preferred waste management: recycle or reuse, incinerate with energy recovery, disposal in a licensed facility. Disposal facility should be compliant with state, local and federal government regulations.

SECTION XIV -- TRANSPORTATION INFORMATION

D.O.T. PROPER SHIPPING NAME (49CFR172.101):	None
HAZARDOUS SUBSTANCE (40CFR116):	N/A
REPORTABLE QUANTITY (RQ):	N/A
D.O.T. HAZARD CLASSIFICATION (49CFR172.101):	Non-regulated
D.O.T. PLACARDS REQUIRED:	None
POISON CONSTITUENT (49CFR173.343):	N/A
BILL OF LADING DESCRIPTION:	Dust control agent
C NO.:	N/A
UN/NA CODE:	N/A

SECTION XV-- REGULATORY INFORMATION

EPA SARA Title III hazard class:	None
OSHA HCS hazard class:	Non-OSHA hazardous (29CFR1910.1200)
EPA SARA Title III Section 313 (40CFR372)	
Toxic Chemicals present in quantities greater than the "de minimus" level are:	None
TSCA:	Components of this product are listed on TSCA inventory
Canadian WHIMIS:	This product is not a "controlled product" under the Canadian Workplace Hazardous Material Information System.
Canadian DSL:	All components of this product are listed on Domestic Substance List.
California Proposition 65:	Does not contain any Prop 65 chemicals.

SECTION XVI -- OTHER INFORMATION

ABBREVIATIONS AND SYMBOLS:

N.D. - Not Determined
< - LESS THAN

N.A. - Not Applicable
> - MORE THAN

N.T. - Not Tested