



EnviroKleen®

Synthetic Organic Dust Control™

Our Product Manufacturer is the Company That Invented *Synthetic Organic Dust Control™*...

Responding to the need for more environmentally sound chemical dust suppressants, our product Manufacturer invented EnviroKleen® in 2001. EnviroKleen® is the safest, purest and highest performing chemical dust suppressant on the market.

EnviroKleen® *Synthetic Organic Dust Control™* is the Safest Chemical Dust Suppressant in the World...

EnviroKleen®, manufactured using a patent-pending process, is crystal clear, odorless and non-toxic to humans, animals, marine and plant life.

EnviroKleen® has been Independently Tested and Verified...

The performance of EnviroKleen®, unlike most other chemical dust control products, has been verified by the U.S. Environmental Protection Agency's Environmental Technology Verification Program (US EPA ETV). This verification confirms, with high quality data, that EnviroKleen® provides excellent performance, is safe for you and the environment, and protects you from deceptive or false claims by other manufacturers.

EnviroKleen®

Is proudly distributed in Africa and in Brazil by
International Commerce Group, Inc.

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

Emergency Phone Numbers: 330-456-3121

EnviroKleen®

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MATERIAL SAFETY DATA SHEET

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

TRADE NAME: ENVIROKLEEN® Synthetic Organic Dust Control™
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):** >338⁰F (>170⁰C), open cup, ASTM D92, Cleveland
- AUTOIGNITION TEMPERATURE:** 664⁰F (351⁰C)
- UNUSUAL FIRE AND EXPLOSION HAZARDS:** Do not cut, weld, heat or 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

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pH: 145 – 175cps @ -5° C
ACIDITY: N/A, not an aqueous solution or emulsion
ALKALINITY: none

SECTION X -- STABILITY AND REACTIVITY

STABILITY: Stable under normal handling conditions.
Stable stored at temperatures between -40° F and + 180° F.

CHEMICAL INCOMPATIBILITY: Can react with strong organic oxidizing materials..

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide, smoke, hydrocarbons and irritating fumes.

HAZARDOUS POLYMERIZATION: Does not occur under normal industrial conditions.

CONDITIONS TO AVOID: Excessive heat and flame.

CORROSIVE TO METAL: 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.

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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

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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.

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.

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SECTION XVI -- OTHER INFORMATION

ABBREVIATIONS AND SYMBOLS:

N.D. - Not Determined

< - LESS THAN

N.A. - Not Applicable

> - MORE THAN

N.T. - Not Tested