

MATERIAL SAFETY DATA SHEET

Mionix Corporation requests that you read and understand this MSDS. Mionix Corporation expects that you abide by the conditions and precautions so stated in this MSDS unless your conditions necessitates other more appropriate processes or actions.

Section 1 – PRODUCT/MANUFACTURER'S IDENTIFICATION

PRODUCT NAME: **CoreTek** EMERGENCY NUMBER: **800-424-9300**
MSDS NUMBER: 14079 PRODUCT USE: Microbiocide
VERSION NUMBER: 1.0 DOT HAZARD CLASS: 8
ISSUE DATE: 05/16/07 DOT SHIPPING NAME: Disinfectant Liquid
Corrosive
(Proprietary Blend
Quaternary
Ammonium
Compound)
REVISION DATE: UN NUMBER: 1903
PREPARED BY: Mionix Corporation PACKING GROUP: PG II
MANUFACTURER: **Mionix Corporation**
4031 Alvis Ct.
Rocklin CA 95677
916-632-2100

		HAZARD RATING
3	HEALTH	
1	FIRE	4 = Extreme
0	REACTIVITY	3 = High
C	MINIMUM PERSONAL PROTECTION	2 = Moderate
		1 = Slight
		0 = Insignificant

A=Goggles B=Goggles & Gloves C=Goggles, Gloves & Apron

ABBREVIATION KEY: NA = Not Applicable NE = Not Established ND = Not Determined

Section 2 – HAZARDOUS INGREDIENTS INFORMATION

<u>CHEMICAL IDENTITY</u>	<u>WEIGHT %</u>
Alkyl dimethyl benzyl ammonium chloride (proprietary blend)	8.0
Octyl decyl dimethyl ammonium chloride	6.0
Diocetyl dimethyl ammonium chloride	4.0
Didectyl dimethyl ammonium chloride	4.0
Ethanol	2.0 – 3.0
Water	75.0 – 76.0

Section 3 – HEALTH HAZARD DATA

ROUTES OF ENTRY/EFFECTS OF OVEREXPOSURE

EYES: Causes burns and may result in permanent injury to eyes including blindness.

SKIN: Causes corrosive burns. Brief exposures may cause irritation and defatting of the skin.

INHALATION: Mists and vapors can irritate the throat and respiratory tract. High vapor concentrations may cause central nervous system effects. May be fatal if inhaled. Symptoms may include headaches, dizziness, and drowsiness.

INGESTION: Ingestion can cause gastrointestinal irritation, swelling of the larynx, difficulty in breathing, circulatory shock, convulsions and possibly death.

CHRONIC: Ingestion of ethanol by pregnant women can cause reproductive toxicity to the fetus.

Section 4 – EMERGENCY AND FIRST AID PROCEDURES

EYES: Immediately flush eyes with water for 15-20 minutes, while holding eyelids open. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Seek medical attention at once.

SKIN/CLOTHING: Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

INHALATION: If symptoms are experienced, move victim to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

INGESTION: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

Section 5 – FIRE AND EXPLOSION DATA

FLASH POINT:	None	EXTINGUISHING MEDIA:	Dry chemical, foam, carbon dioxide or water fog. Solid water streams may spread burning liquid.
AUTO IGNITION TEMP:	NA	SPECIAL FIRE FIGHTING PROCEDURES:	Firefighters should wear full protective clothing including self-contained breathing apparatus. Cool fire exposed containers with spray.
FLAMMABLE LIMITS IN AIR:	ND	HAZARDOUS COMBUSTION PRODUCTS:	Irritating and toxic gases or fumes may be released during a fire.

Section 6 – ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES:

Emergency Action:	Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas where vapors may accumulate. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).
Spill Cleanup:	Ventilate closed spaces before entering. All equipment used when handling the product must be grounded. Floor will be slippery. Do not touch or walk through spilled material. Stop leak if you can do it without risk. A vapor suppressing foam may be used to reduce vapors. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material.
Large Spills:	Dike far ahead of liquid spill for later disposal. Water spray may reduce vapor but will increase foaming. Water may not prevent ignition in closed spaces.

Section 7 – HANDLING & STORAGE

HANDLING PROCEDURES:	Avoid contact with skin and eyes. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water.
STORAGE PROCEDURES:	Keep the container tightly closed and in a cool, well-ventilated place. Keep from freezing. Do not handle or store near an open flame, heat or other sources of ignition. Prevent electrostatic charge buildup by using common bonding and grounding techniques.

Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:	Provide adequate local exhaust ventilation (explosion proof) to maintain worker exposure below exposure limits.
PERSONAL PROTECTION:	
Eyes/Face:	Wear chemical goggles. Use a face shield if splashing is possible.
Skin:	Use impervious gloves (rubber or neoprene). Wear suitable protective clothing.
Respiratory:	If exposure limits are exceeded or if irritation is experienced, NIOSH approved respiratory protection should be worn. Ventilation and other forms of engineering controls are often the preferred means for controlling chemical exposures. Respiratory protection may be needed for non-routine or emergency situations.
General:	Eye wash fountain and emergency showers are recommended.

The following ingredients have established exposure guidelines:

Ingredient	Exposure Guideline	Guideline Value
Ethanol 64-17-5	ACGIH TWA (2007)	1000 ppm (TWA)
	Mexico	1000 ppm (TWA)
All TWAs are for an 8 hour period.		

Section 9 – PHYSICAL DATA

FLASH POINT:	None
SPECIFIC GRAVITY (8 lbs/gal):	.95 (8 lbs/gal)
PERCENT VOLATILES:	2 - 3% (weight %)
VAPOR PRESSURE:	~ 24 mm Hg
VOC CONTENT:	2 - 3%
VAPOR DENSITY:	ND
VISCOSITY:	120 CPS @ 25° C
EVAPORATION RATE:	ND
POUR POINT:	ND
PH:	6 - 8
APPEARANCE & ODOR	Clear, colorless to straw colored liquid with benzaldehyde (organic) odor.

Section 10 – REACTIVITY

CHEMICAL STABILITY:	Material is stable.
CONDITIONS TO AVOID:	Keep away from heat and strong oxidizing agents.
INCOMPATIBILITIES:	Strong oxidizing agents (may result in fire), reducing agents.
HAZARDOUS DECOMPOSITION:	Carbon monoxide, carbon dioxide and toxic hydrogen chloride vapors.
HAZARDOUS POLYMERIZATION:	Will not occur.

Section 11 – TOXICOLOGICAL INFORMATION

CARCINOGENICITY:	No carcinogenicity data available for this product. No ingredient listed as potential or known carcinogen.
ACUTE ORAL LD50:	405 mg/kg for males and females combined (albino rabbits).
ACUTE DERMAL:	740 mg/kg for males, 620 mg/kg for females (albino rabbits).
PRIMARY SKIN:	Corrosive
PRIMARY EYE:	Corrosive

Section 12 – ECOLOGICAL INFORMATION

ECOTOXICITY:	Very toxic to aquatic organisms.
ENVIRONMENTAL FATE:	This product is biodegradable.

Section 13 – DISPOSAL CONSIDERATIONS

DISPOSAL INSTRUCTIONS: This substance, when discarded or disposed of, is a characteristic hazardous waste according to Federal regulation (40 CFR 261) and is assigned the EPA Hazardous Waste Number of D001. The discarding or disposal of this material must be done at a properly permitted facility in accordance with the regulations of 40 CFR 262, 263, 264, and 268. Additionally, the discarding or disposal of this material may be further regulated by state, regional, or local regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.

The transportation, storage, treatment, and disposal of this waste material must be conducted in compliance with all applicable Federal, state, and local regulations.

Section 14 – REGULATORY INFORMATION

TSCA STATUS: While three of the ingredients are listed on the TSCA Chemical Inventory, this product is regulated as a pesticide under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and not subject to the TSCA Inventory rules for FIFRA uses.

OTHER CHEMICAL INVENTORIES: All components of this product are listed on the following inventories: Canada (DSL), China, European Union, Korea, and Philippines. One of more of the ingredients is not listed on the inventories for Australia and Japan.

CERCL/SARA **SARA Title III, Sections 311/312** – This act requires reporting under the Community Right-To-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in the 40 CFR 370:

Classification of this product: Immediate, Fire

SARA Title 313 – This act requires submission of annual reports of releases of the following components of this material if the threshold reporting quantities, as listed in 40 CFR 372, are met or exceeded:

Chemical Name	CAS No.	Max Concentration	Comment
None			

STATE AND PROVINCIAL RIGHT-TO-KNOW AND SELECTED REGULATORY LISTS: The following ingredients appear on various state right to know lists and/or California's Proposition 65 List:

Chemical Name	State List
Benzyl Chloride (trace < 10 ppm)	AZ, CA, CAP65C, CT, FL, IL, MA, MN, NJ, PA
Ethanol	AZ, CA, CA65C, CT, FL, ID, MA, MN, NJ, PA, RI

AZ – Arizona Ambient Air Quality Guidelines
 CT – Connecticut Hazardous Air Pollutants
 CA 65R – California Prop 65 Reproductive Toxin
 FL – Florida Substances List
 ID – Idaho Non-carcinogen Toxic Air Pollutants
 IL – Illinois Toxic Air Contaminant – Carcinogenic
 MA – Massachusetts Right to Know List

CA – California Director's List of Hazardous Substances
 CA65C – California Prop 65 Carcinogen
 MN – Minnesota Hazardous Substances List
 NJ – New Jersey Right to Know List
 PA – Pennsylvania Right to Know List
 RI – Rhode Island Hazardous Substances List

WHMIS CLASSIFICATION: B3, D2B, E. This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

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