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# MATERIAL SAFETY DATA SHEET

## Enviro-Tech Specialties, Inc.

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## ALKA KLEEN HD

QUICK IDENTIFIER: HEAVY DUTY ALKALINE DEGREASER, CLEANING LIQUID.

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### SECTION I: HAZARDOUS INGREDIENTS / IDENTITY

INGREDIENTS	PEL	TLV	OTHER EXPOSURE LIMITS
CAUSTIC SODA, SODIUM HYDROXIDE			CORROSIVE

### SECTION II: PHYSICAL & CHEMICAL CHARACTERISTICS

BOILING POINT	225 DEG F
SPECIFIC GRAVITY	< 1
VAPOR PRESSURE (mm Hg)	< 1
VAPOR DENSITY	NOT APPLICABLE
SOLUBILITY IN WATER	360 G / 100 G
REACTIVITY IN WATER	EXOTHERMIC
APPEARANCE & ODOR	SLIGHTLY HEAVY LIQUID SLIGHT SWEET ODOR
MELTING POINT	NOT DETERMINED

### SECTION III: FIRE & EXPLOSION DATA

FLASH POINT	NONE
METHOD USED	DNA
FLAMMABLE LIMITS	
LEL LEVEL	NA
UEL LEVEL	NA
AUTO IGNITION TEMPERATURE	NA
EXTINGUISHER MEDIA	NONE NEEDED
SPECIAL FIRE FIGHTING PROCEDURES	NONE NEEDED
UNUSUAL FIRE & EXPLOSION HAZARDS	CONTACT OF PRODUCT FOR LONG PERIODS IN CONFINED SPACE WITH SOME METAL SUCH AS MAGNESIUM, ZINC AND ALUMINUM CAN GENERATE HYDROGEN GAS WHICH IS EXPLOSIVE.

### SECTION IV: PHYSICAL HAZARDS (REACTIVITY DATA)

STABILITY:	STABLE, AVOID MATERIALS LISTED BELOW
INCOMPATIBILITY:	CONCENTRATED ACIDS AND THE FOLLOWING METALS: ZINC, GALVANIZED TIN, CHROMIUM, BRASS, BRONZE, MAGNESIUM, AND ALUMINUM.
HAZARDOUS DECOMPOSITION PRODUCTS:	CARBON MONOXIDE FORMED IF PRODUCT REACTS WITH VARIOUS FOOD SUGARS.
HAZARDOUS POLYMERIZATION	WILL NOT OCCUR

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**SECTION V: HEALTH HAZARDS**

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ACUTE: BURNS, RESULTING IN DEEP ULCERATION  
CHRONIC: SUPERFICIAL DESTRUCTION OF TISSUE & IRRITANT DERMATITIS

SIGNS & SYMPTOMS: BURNING SENSATION, SHORTNESS OF BREATH

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NO SPECIFIC CONDITIONS

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

<u>NATIONAL TOXICOLOGY PROGRAM</u>	<u>IARC</u>	<u>OSHA</u>
NO	NO	NO

**EMERGENCY & FIRST AID PROCEDURES:** REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. CALL PHYSICIAN. FLUSH EYES AND SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. HOLD EYE LIDS OPEN DURING FLUSHING. REMOVE CONTAMINATED CLOTHING. IF SWALLOWED DRINK AT LEAST ONE QUART OF WATER AND TAKE IMMEDIATELY TO HOSPITAL. DO NOT INDUCE VOMITTING.

ROUTES OF ENTRY: 1. INHALATION – MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT DEPENDING ON EXTENT OF EXPOSURE  
2. EYES – MAY BECOME SEVERELY BURNED AND POSSIBLY DAMAGED  
3. SKIN – CORROSIVE ACTION CAUSED BURNS IRRITANT DERMATITIS  
4. INGESTION – MAY CAUSE DAMAGE TO TISSUE OF MOUTH, ESOPHAGUS AND STOMACH

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**SECTION VI: SPECIAL PRECAUTIONS & SPILL / LEAK PROCEDURES**

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PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: KEEP CONTAINERS CLOSED WHEN NOT IN USE

OTHER PRECAUTIONS: DO NOT STORE CLOSE TO ORGANIC MATERIALS OR CONCENTRATED ACIDS

STEPS TO BE TAKEN IN CASE MATERIALS IS RELEASED OR SPILLED: DIKE AREA TO CONTAIN SPILL. RECLAIM IF POSSIBLE. DILUTE SPILL WITH LARGE VOLUME OF WATER AND THEN NEUTRALIZE ACID. USE VACUUM TO REMOVE NEUTRALIZED MATERIAL FOR DISPOSAL IN APPROVED HAZARDOUS WASTE FACILITY

WASTE DISPOSAL METHODS: DISPOSE IN APPROVED DISPOSAL LAND FILL

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**SECTION VII: SPECIAL PROTECTION INFORMATION / CONTROL MEASURES**

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RESPIRATORY PROTECTION	NIOSH/MSHA APPROVED MECHANICAL FILTER
TYPE	
VENTILATION	SEE SECTION VI
LOCAL EXHAUST	SUFFICIENT TO BELOW TLV
MECHANICAL	NO
PROTECTIVE GLOVES	CHEMICAL RESISTANT
EYE PROTECTION	CLOSE FITTING SPLASH GOGGLES
OTHER PROTECTIVE CLOTHING/EQUIPMENT	RUBBER BOOTS AND APRONS, HARD HAT, EYE WASH STATION, AND SAFETY SHOWER
WORK/HYGIENIC PROCEDURES	AVOID BREATHING MISTS. DO NOT RUB EYES WITH RUBBER GLOVES ON. WASH CONTAMINATED CLOTHING THOROUGHLY BEFORE WEARING