

MATERIAL SAFETY DATA SHEET

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SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	TEK 191 DEGREASER	HMIS RATING
Product Description:	Alkaline Steam Degreaser	Health: 3
Product Code:	None	Fire: 0
Date Prepared:	October 9, 2001	Reactivity: 1
		PPE: D

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS#	%	SARA TITLE III	PEL	TLV
Sodium Hydroxide	1310-73-2	2-4	Yes	2 mg/m ³	2 mg/m ³ Ceiling

Components listed as a suspected carcinogen: None

SECTION 3. HAZARDS IDENTIFICATION

Health Hazards (Acute and Chronic):

Effects of Overexposure:

Primary Routes of Entry: Skin and Eye Contact.

EYE CONTACT: Corrosive! Vapors, liquid, mists are extremely corrosive to of the eyes. Brief Contact of the vapors will be severe irritating. Brief contact with liquid or mists will severely damage the eyes and prolonged contact may cause permanent eye injury, which may be followed by blindness.

SKIN: Corrosive! Vapors, liquid, mists are extremely corrosive to the skin. Vapors will severely irritate the skin and liquid and mists will severely burn the skin. Prolonged liquid contact will burn or destroy surrounding tissue and may be fatal if burns extend over large portions of the body.

INHALATION: Corrosive! Vapors and mists are extremely corrosive to the nose, throat, and mucous membranes. Bronchitis, pulmonary edema, and chemical pneumonia may occur. Irritation, coughing, chest pain, and difficulty in breathing may occur with brief exposure. May result in more severe irritation and tissue damage. Breathing high concentrations may be fatal.

INGESTION: Corrosive! Vapors, mists, and liquid are extremely corrosive to the mouth and throat. Swallowing the liquid burns the tissues, causes severe abdominal pain, nausea, vomiting, and collapse. Swallowing large quantities can be fatal.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None reported.

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SECTION 4. FIRST AID MEASURES

Emergency and First Aid Procedures.

- IF IN EYES:** Immediately flush with large quantities of clean water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. Washing of eyes within seconds is essential to achieve maximum effectiveness.
- IF ON SKIN:** Immediately rinse exposed area with clean water for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get immediate medical attention. Washing of skin within seconds is essential to achieve maximum effectiveness.
- IF SWALLOWED:** **DO NOT INDUCE VOMITING.** If conscious, immediately drink two glasses of water. Never give anything orally to an unconscious or convulsing person. If available, give several glasses of milk. Get immediate medical attention.
- IF BREATHED:** Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Get immediate medical attention.
- NOTE!** Use water only to flush skin and eyes. Get immediate medical attention for eye contact.

SECTION 5. FIRE FIGHTING MEASURES

- FLASH POINT (PMCC):** Deg F. 150
- FLAMMABLE LIMITS IN AIR:** Not Determined.
- EXTINGUISHING MEDIA:** Dry Chemical, carbon dioxide, foam, or water fog. Class BC or ABC fire extinguisher.
- SPECIAL FIRE FIGHTING PROCEDURES:** Self-contained positive pressure breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.
- UNUSUAL FIRE AND EXPLOSION HAZARDS:** Extinguish all nearby sources of ignition since flammable hydrogen gas will be liberated from contact with some metals.
- HAZARDOUS DECOMPOSITION PRODUCTS:** Generates hazardous mist at boiling point, 218-288 Deg F. Flammable hydrogen gas will be liberated upon contact with metals such as aluminum, tin or zinc.

SECTION 6. SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Use required personal protective equipment when entering spill area. Avoid entering spill area. Spilled material may be extremely slippery.

- SMALL SPILL:** Contain spill and use liquid vacuum to salvage free liquid for reuse, if possible. Use appropriate absorbent material to absorb residual material and transfer absorbed material to containers for disposal.
- LARGE SPILL:** Stop spill at source using dam, dike or divert techniques to prevent spill from spreading. Use liquid Vacuum to salvage any free product for reuse, if possible. Use absorbent to absorb any residual material. Transfer into container for disposal. Neutralize area with acids such as Hydrochloric or Acetic. Follow up with water flush and liberal covering of Sodium Bicarbonate.

SECTION 7. HANDLING AND STORAGE

Preferred storage is between 60 and 100 deg. F. Keep Container closed when not in use. Never use pressure to empty. Use with adequate ventilation. Prevent from freezing. If container is to be returned or recycled, make sure container is drip dry.

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SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION EQUIPMENT

Occupational Exposure Limits:

	ACGIH TLV	TLV(C)	STEL	OSHA STEL	PEL
Sodium Hydroxide	2 MG/M3	2	-		2 (C)

RESPIRATORY PROTECTION: If TLV of product or any component is exceeded, used an approved NIOSH/MSHA respirator. Engineering controls should be implemented to control exposures.

VENTILATION Provide sufficient general and/or local exhaust to maintain exposure below the TLV(s).

PROTECTIVE GLOVES: Use Neoprene or Buna-N rubber gloves.

EYE PROTECTION: Chemical splash goggles in compliance with OSHA regulations are required. Use of a face shield may be required when handling or applying this product.

OTHER PROTECTIVE EQUIPMENT: Wear impervious clothing/rubber boots to prevent skin contact.

NOTE! **A Safety shower and eye wash station is required when using corrosive products.**

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Approx. 218 deg. F.
Vapor Pressure:	MM HG = 1
Vapor Density:	(air = 1) Heavier than air
Specific Gravity:	>1.05
Percent Volatiles:	None
Evaporation Rate:	(H ₂ O = 1) Approx. 1
Appearance and odor:	Clear Blue Liquid, Mild Detergent Odor.
pH:	13.0-13.5

SECTION 10. STABILITY AND REACTIVITY

STABILITY: Product is stable

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY: Avoid contact with acids, combustible materials, and metals such as aluminum, tin, galvanized zinc, brass and bronze. Avoid organic chemicals such as nitro carbons, leather and wool and organic acids and their anhydrides. Reaction with various sugars may form carbon monoxide.

SECTION 11. TOXICOLOGICAL INFORMATION

FOR SODIUM HYDROXIDE:

ORAL: Rat LD50 = 140-340 MG/KG

DERMAL: Rabbit LD50 = 1350 MG/KG

INHALATION: No data found

CARCINOGENICITY: This product or its components are not considered carcinogenic by the NTP, IARC, or OSHA.

SECTION 12. ECOLOGICAL INFORMATION

None Available For Product

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SECTION 13. DISPOSAL CONSIDERATIONS

EPA WASTE CODE: D002

Wastes resulting from clean-up operations may be hazardous wastes and, therefore, subject to specific regulations. Package, store, transport, and dispose of all clean-up materials and any contaminated equipment in accordance with all applicable federal, state, and local health and environmental regulations. Liquid wastes of this product, as delivered, meet the criteria of Corrosivity per CFR 40 Parts 261.

SECTION 14. TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Compound Cleaning Liquid, n.o.s., (Contains Sodium Hydroxide)
DOT HAZARD CLASS: 8
DOT IDENTIFICATION NO. NA1760
DOT PACKING GROUP: II
DOT RQ FOR PRODUCT: 25,000 LBS
DOT MARINE POLLUTANT: NA
EMERGENCY RESPONSE GUIDE NUMBER: 154

CANADIAN TDG/WHMIS REGULATIONS:

TDG NAME: Compound Cleaning Liquid, n.o.s., (Contains Sodium Hydroxide)
TDG CLASS: 8
PIN NUMBER: NA1760
WHMIS: CLASS E

SECTION 15. REGULATORY INFORMATION

TSCA: The ingredients of this product are on the TSCA inventory.

SARA TITLE III HAZARD CATEGORIES

SECTION 311: ACUTE: YES CHRONIC: NO
SECTION 313: NONE
FIRE HAZARD: NO
REACTIVE HAZARD: YES
SUDDEN RELEASE OF PRESSURE: NO

PROPOSITION 65: NONE

STATES RIGHT TO KNOW

MASSACHUSETTS: SODIUM HYDROXIDE 1310-73-2 <4%
PENNSYLVANIA: SODIUM HYDROXIDE 1310-73-2 <4%

CALIFORNIA SCAQMD: NONE

EEC Classification: Corrosive

SECTION 16. OTHER INFORMATION

PLEASE NOTE! Do not mix with other chemicals unless advised by supplier.