

Manufactured by:
TENNANT
701 North Lilac Drive
P.O. Box 1452
Minneapolis, MN 55440-1452

MATERIAL SAFETY DATA SHEET

High Alkaline Degreaser



EMERGENCY PHONE NUMBERS:

CHEMTREC: (800) 424-9300 (24 hrs)
CANADA: CANUTEC (613) 996-6666 (24 hrs)

District of Columbia: (202) 483-7616 (24 hrs)
MSDS Requests: (800) 553-8033

PREPARATION INFO:

By: Kevin Hobbie (763) 540-1471 (days)
(612) 834-0118 (mobile)

This Material Safety Data Sheet (MSDS) has been prepared in compliance with the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.

Issue Date:	October 5, 2009	HAZARD RATING	NFPA	HMS	NFPA	HMS	4 = Extreme	3 = High	0 = Insignificant
Supersedes:	September 21, 2009	Health	3	3	Reactivity	0	2 = Moderate	1 = Slight	COR = Corrosive
Printed:	10/6/2009	Fire	0	0	Special	COR			X = Ask supervisor for guidance.

***** I. IDENTIFICATION *****

PRODUCT NAME: High Alkaline Degreaser

US DEPT OF TRANSPORTATION (GROUND):

UN#: UN1824

PACKAGING GROUP: II

PART NUMBER: 9006776, 9006778, 9006780, 9006781

HAZARD CLASSIFICATION: Corrosive

CHEMICAL FAMILY: Alkaline Detergent

SHIPPING NAME: Sodium Hydroxide Solution

MATERIAL USE: Industrial Detergent for Floors

***** II. PHYSICAL DATA *****

BOILING POINT:	220°F	/	104°C	FREEZE POINT:	-10°F.	/	-23°C.
DENSITY:	8.92 lb/gal			% VOLATILE:	Not Available		
SOLUBILITY IN WATER:	Complete			VAPOR PRESSURE:	Not Available		mm Hg at 20 °C.
ODOR THRESHOLD:	Not Available			pH:	12.7-13.7		
PHYSICAL FORM:	Liquid			VAPOR DENSITY:	Heavier		THAN AIR
APPEARANCE AND ODOR:	Red/Solvent			COEFFICIENT WATER/OIL DISTRIBUTION:	Not Available		
EVAPORATION RATE:	Faster		THAN N-BUTYL ACETATE	VOC g/L (lb/gal):	55 (0.46)		
MECHANICAL IMPACT:	Not Available			STATIC DISCHARGE:	Not Available		

***** III. INGREDIENTS *****

All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory. Hazardous ingredients, defined as Controlled Products by Canadian WHMIS, are identified by (HZD) after the chemical ingredient. This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations) and the MSDS contains all of the information required by the CPR.

<u>CHEMICAL</u>	<u>CAS #</u>	<u>% W</u>	<u>OSHA PEL</u> <u>ppm</u>	<u>ACGIH TLV</u> <u>TWA ppm</u>	<u>ACGIH TLV</u> <u>STEL ppm</u>	<u>LD50</u>	<u>LC50</u> <u>INHALATION</u>
Dipropylene Glycol Monomethyl Ether (HZD)	34590-94-8	1-5	100	100	150	5220 mg/kg (oral rat) 13000-14000 mg/kg (skin rabbit)	>10000 mg/L (96 hrs fathead minnow)
Sodium Hydroxide (HZD)	1310-73-2	1-5	2 mg/m ³	2 mg/m ³ (ceiling)	Not Available	Not Available	Not Available

SARA Title III Section 313 Information: Components present in this product at a level which could require reporting under this statute are:
None

California Proposition 65 Information: This product contains the following chemicals designated as cancer and/or reproductive hazards under California Proposition 65.
None

***** IV. FIRE AND EXPLOSIVE HAZARD DATA *****

FLAMMABLE: No **FLASH POINT:** >200°F / >93°C Setflash
FLAMMABLE LIMITS: % LEL: Not Available % UEL: Not Available **AUTOIGNITION TEMPERATURE** Not Available / Not Available
EXTINGUISHING MEDIA: Use National Fire Protection Association (N.F.P.A.) Class B extinguishers (carbon dioxide, dry chemical or foam). Do NOT use direct water stream.

SPECIAL FIRE FIGHTING PROCEDURES:

Use water spray to keep fire-exposed containers cool. Wear self-contained breathing apparatus; wear goggles if eye protection is not provided.

UNUSUAL FIRE EXPLOSION HAZARD:

Keep containers tightly closed. Closed containers may explode when exposed to extreme heat. Do not apply to hot surfaces.

***** V. REACTIVITY DATA *****

STABILITY: Stable **HAZARDOUS POLYMERIZATION (May Occur/Will Not Occur):** Will Not

CONDITIONS TO AVOID: Excessive heat.

INCOMPATIBILITY (materials to avoid): Strong acids and oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide and carbon monoxide.

***** VI. HEALTH HAZARD DATA *****

EFFECTS OF OVEREXPOSURE: THRESHOLD LIMIT VALUE - See Section III for individual ingredients.

PRIMARY ROUTES OF ENTRY: Inhalation & Skin Contact

SKIN CONTACT/ABSORPTION: Corrosive; may cause severe irritation, redness, blister formation and/or possible tissue destruction.

EYE CONTACT: Contains materials which may cause eye injury. During application of this product, contact lenses should NOT be worn.

INGESTION (Swallowing):

Contains materials which will cause a burning sensation, gastric upset, diarrhea and severe inflammation to mucous membranes.

INHALATION (Breathing):

Contains materials which have the potential for respiratory tract irritation if inhaled.

SUPPLEMENTAL HEALTH INFORMATION:

All ingredients are NOT carcinogenic, based on the International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP).

***** VII. EMERGENCY AND FIRST AID PROCEDURES *****

SKIN CONTACT: IMMEDIATELY wash exposed areas with mild soap and water. Rinse thoroughly with cool water. Pat dry. DO NOT RUB SKIN. Seek medical attention if irritation develops and persists. Wash clothing before reuse.

EYE CONTACT: Flush immediately with water for 15 minutes; CALL A PHYSICIAN.

INGESTION (Swallowing): CALL A PHYSICIAN OR POISON CONTROL CENTER. DO NOT attempt to induce vomiting.

INHALATION (Breathing): Remove to fresh air. If breathing difficulty persists or occurs later, consult a physician.

***** VIII. PREVENTIVE MEASURES *****

SPILL OR LEAK PROCEDURES **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Keep spectators away. Floor may be slippery; use care to avoid falling. Dike and contain the spill with inert material (sand, earth, fuller's earth, etc.) and if appropriate, transfer the liquid and solid diking material to separate containers for recovery or disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Wash clothing before reuse. Keep spill out of all sewers and open bodies of water.

WASTE DISPOSAL METHOD: Dispose of in accordance with federal, state and local regulations.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION and VENTILATION:

Use with adequate ventilation.

Local exhaust.

PROTECTIVE GLOVES (specify type):

For sensitive skin or prolonged contact, use impervious gloves; i.e., rubber.

EYE PROTECTION (specify type)

Chemical splash goggles

SKIN PROTECTION: Impervious gloves; i.e., rubber

SPECIAL PRECAUTIONS: **PRECAUTIONS TO BE TAKEN IN HANDLING OR STORAGE:**

Store inside in a cool (below 100°F or 37.5°C), dry place.

OTHER PRECAUTIONS: Do not take internally. Avoid prolonged contact with skin; contaminated clothing should be laundered before reuse.