MATERIAL SAFETY DATA SHEET

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Product: **NU-CLEAR 11**

MSDS No.: E6008 - Rev 5.1 Date: 05/02
Replaces - Rev 5.0 08/96
Reason: Format Change

-- SECTION 01 - IDENTIFICATION AND INFORMATION --

Product or Trade Name: ..... NU-CLEAR 11
Chemical Name/Synonym: ..... PROPRIETARY BLEND
Chemical Family: ..... COMPOUND
Formula: ..... PROPRIETARY
Product Code: E6008

HMIS
Hazard Rating: Legend:

Health: ..... 1 0 - Least
Fire: ..... 0 1 - Slight
Reactivity: ..... 0 2 - Moderate
3 - High
4 - Extreme

Product Description: Aqueous alkaline cleaning compound.

-- SECTION 02 - PHYSICAL DATA --

Boiling Point: ..... > 210°F.
Vapor Pressure: ..... < 1 (mmHg)
Vapor Density: ..... > 1 (AIR = 1)
Appearance: ..... Translucent liquid
pH: ..... 11 ± 0.2, as received

Solubility in Water: ..... Complete
Specific Gravity: ..... 1.05 (H_2O=1)
% Volatile by Volume: ..... Nil
Odor: ..... Mild

-- SECTION 03 - HAZARDOUS COMPONENTS --

CHEMICAL NAME	CAS #	% Range	OSHA PEL	ACGIH TLV
*sodium hydroxide (partially neutralized)	1310-73-2	<5	2 mg/m^3	2mg/m^3
* ethanoic acid (neutralized)	64-19-7	<5	25mg/m^3	25mg/m^3, TWA 37mg/m^3, STEL
dipropylene glycol methyl ether	34590-94-8	3-8	100 ppm, TWA	100 ppm, TWA 150 ppm, STEL
Inert and/or non-hazardous components	--------	80-90	----------	----------

Note: Material may contain trace amounts of ethylene oxide (75-21-8) in quantities less than 0.0001%.
* Component hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200) or one or more state Right-To-Know lists, in its pure form. It should be understood that as they are compounded, diluted and neutralized, they lose many of the characteristics that contribute to their inherent hazards.

-- SECTION 04 - FIRE AND EXPLOSION HAZARD DATA --

Flash Point: ..... N/A (will not support combustion).
Extinguishing Media: ..... Small Fire: CO^2, water fog, dry chemical; Large Fire: All-purpose-type or alcohol-type foam.
Special Fire Fighting Procedures: ..... Use self-contained breathing apparatus; water may be used to cool adjacent containers.

-- SECTION 05 - REACTIVITY DATA --

Stability: ..... Stable.
Incompatibility: ..... Strong oxidizers.
Hazardous Decomposition Products: ..... Carbon monoxide may form upon thermal degradation.
Hazardous Polymerization: ..... Will not occur.

- Continued -

-- SECTION 06 - SPILL, LEAK, AND DISPOSAL PROCEDURES --

Small Spills: Absorb with sand or inert material; scoop up and dispose to proper container.
Large Spills: Prevent spread of spill by dyking. Salvage uncontaminated material if possible. Absorb remainder of spill with inert material; scoop up and dispose to proper container.

ALWAYS DISPOSE OF MATERIAL IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODES FOR THAT TYPE OF MATERIAL.

-- SECTION 07 - HEALTH HAZARD DATA --

EYE CONTACT:..... May cause irritation. Severe irritation to chemical burn may result if not irrigated immediately.
SKIN CONTACT:..... Prolonged contact may cause dryness and dry skin irritation.
INHALATION:..... No data - situation not normally encountered.
INGESTION: ..... Not determined.
EFFECTS OF OVEREXPOSURE: ..... None currently known.
IARC and NTP ..... NONE of he ingredients in this product are listed by the NTP, IARC, or OSHA as possible carcinogens.

-- SECTION 08 - FIRST AID --

EYES: ..... Flush with water for a minimum of 15 minutes (industry safety standard for all materials). Seek medical attention if irritation persists.
SKIN:..... Flush with water; wash with soap and water after handling.
INHALATION:..... Remove to fresh air.
INGESTION: ..... DO NOT INDUCE VOMITING - Seek medical attention.

-- SECTION 09 - SPECIAL HANDLING INFORMATION --

VENTILATION:..... None normally required; product normally does not produce vapors or mist.
RESPIRATORY PROTECTION: ..... None normally required; NIOSH approved respirator for mist conditions.
PROTECTIVE CLOTHING: ..... Chemical resistant gloves when mixing or handling.
EYE PROTECTION:..... Tight fitting or chemical workers goggles if splashing is anticipated.

-- SECTION 10 - REGULATORY AND ADDITIONAL INFORMATION --

HANDLING AND STORAGE: Do not breathe vapors or mist. Do not allow contact with eyes, or leave in contact with skin for prolonged periods. Wash contaminated clothing prior to re-use. Do not allow contact with oxidizers. Empty Containers: Do not reuse empty containers for storage of foodstuffs or potable water. For returnable drums or drums set aside for reconditioner, empty drums as completely as possible and fit bungs tightly with undamaged closures. D.O.T. regulations impose stiff penalties for transportation of open containers, and drivers will refuse to transport them.

D.O.T.: Shipping Information:
Shipping Name: Alkaline Cleaning Liquid - Not Regulated
Hazard Class: None (under current HM-181 definitions)
UN/NA Number: None

TSCA - The ingredients in this material are listed on the TSCA Inventory.

SARA Title III Information (for sodium hydroxide as a component of this material): A) Sections 311/312 - acute, reactive; B) Section 313 - Not Listed; C) Section 302 - Not Listed as an Extremely Hazardous Substance.
CERCLA Information (for the sodium hydroxide component): Listed in Table 302.4 of 40 CFR Part 302 as a hazardous substance with NRC RQs of 1000 lbs. RQ of NU-CLEAR 11 would be well in excess of 33,300 lbs (3,848 gals).

Abbreviations Used in this Material Safety Data Sheet: < = Less Than; > = Greater Than; N/A = Not Applicable; N/E = Not Established; N/L = Not Listed; N/D = Not Determined; TWA = Time Weighted Average; STEL = Short Term Exposure Limit; PEL = Permissible Exposure Limit; NIOSH = National Institute of Occupational Safety & Health; OSHA = Occupational Safety & Health Administration; ACGIH = American Conference of Government and Industrial Hygienists; NTP = National Toxicology Program; I ARC = International Agency for the Registration of Carcinogens; TSCA = Toxic Substance Control Act; SARA = Superfund Amendment Reauthorization Act; RQs = Reportable Quantities; CERCLA = Comprehensive Environmental Response Compensation and Liability Act; NRC = National Response Center; RCRA = Resource Recovery and Conservation Act.

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