

**MATERIAL SAFETY DATA SHEET**  
COMPLIES WITH OSHA'S HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

**SECTION I – PRODUCT IDENTIFICATION**

Product Name: Extreme Duty Foaming Cleaner  
Product Number: 488  
Product Type: AEROSOL  
Supplier's Name: Terand Industries, Inc.  
Supplier's Address: PO Box 9947, Ft Lauderdale, FL 33310  
D.O.T Hazard Class: CONSUMER COMMODITY ORM-D

Formula: Proprietary  
Date Prepared: 07/28/1998  
Emergency Phone: (800) 255-3924  
Information Phone: (954) 974-5440

HMS Rating (Based on Aerosol Conc.):  
0-Minimal 1-Sight 2-Moderate  
3-Serious 4-Extreme  
HEALTH: 1 FIRE: 0 REACTIVITY: 0  
**Personal Protection: 8**

**SECTION II – INGREDIENTS**

CHEMICAL NAME	CAS #	%WT	313/Chem	Skin	Carcinogen	PEL	TWA/TLV
Sodium Bicarbonate	144-55-8	01-05	NO	NO	NO	N/E	N/E
Nonylphenol Ethoxylate	127087-87-0	01-05	NO	NO	NO	N/E	N/E
Tnethanolamine	102-71-6	01-05	NO	NO	NO	N/E	N/E
Isopropyl Alcohol	67-63-0	01-05	NO	NO	NO	400 ppm	400 ppm
Citrus Terpene	5989-27-5	01-05	NO	NO	NO	N/E	N/E
Liquefied Petroleum Gas	68476-65-7	05-10	NO	NO	NO	1000 ppm	1000 ppm

**SECTION III – PHYSICAL DATA**

Data Below Based On Aerosol Concentrate Only:

Boiling Point: -212°F

pH: -9.5

Solubility in Water: Complete

Appearance/Odor: White Foam with Citrus Odor

Data Below Based On total Contents:

Vapor Pressure of can (psig @70°F): S5

Total VOC %: -10%

Vapor Density(Air=1): >1

Specific Gravity (H<sub>2</sub>O=1)@75°F 1.02

**SECTION IV – FIRE AND EXPLOSION DATA**

Flash Point (of Concentrate Only): None to Boiling (212°F)

Flammability (as per USA Flame Protection Test): Non-flammable Spray

Extinguishing Media: Foam, CO<sub>2</sub>, Dry Media

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. Cool fire exposed containers to prevent rupturing.

Unusual Fire and Explosion Hazards: Exposure to temperature above 120°F may cause bursting.

**SECTION V – REACTIVITY DATA**

Stability: Material Stable

Hazardous Polymerization: Will not occur.

Incompatibility: Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products: Carbon Dioxide, Carbon Monoxide

**SECTION VI – STORAGE AND HANDLING**

KEEP OUT OF REACH OF CHILDREN.

For Industrial and Institutional Use only.

Store in a cool, dry area away from heat or open flame.

Do not store at temperatures above 120°F

NFPA Code 30B Rating: Level 1 Aerosol

**SECTION VII – HEALTH AND FIRST AID**

PRIMARY ROUTES OF ENTRY & EFFECTS OF OVER EXPOSURE:

Eyes: May cause slight irritation but does not injure eye tissue.

Skin: Frequent or prolonged contact may cause irritation.

Inhalation: Inhalation or mist can cause irritation of nasal and respiratory passages. Abusive or excessive inhalation may cause irritation to the upper respiratory tract, dizziness, nausea and other central nervous system effects.

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis. Minimal toxicity.

FIRST AID PROCEDURES:

Eyes: Flush with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. If irritation persists get medical attention immediately

Skin: Wash with soap and water. If irritation persists seek medical attention.

Inhalation: Remove to fresh air. Seek medical attention immediately. If breathing stops give artificial respiration.

Ingestion: Do not induce vomiting. Seek medical attention immediately.

**SECTION VIII – SPECIAL PROTECTION DATA**

Respiratory Protection: None needed for proper use in accordance with label directions.

Ventilation: Provide local exhaust to keep TLV of Section II ingredients below acceptable limits.

Protective Gloves: None needed for proper use in accordance with label directions. Use chemical resistant gloves if hand contact will be made.

Eye Protection: None needed unless it is anticipated that a splash or spray back will occur, then wear safety glasses or chemical proof goggles.

**SECTION IX – SPILL OR LEAK PROTECTION**

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK: Allow propellant to evaporate. Maintain local exhaust and adequate ventilation. NO smoking. Keep sparks, heat sources and open flame far away from spill or leak. Cover with absorbent material and seep up. Wash area to prevent slipping. Dispose of soaked absorbent material in accordance with Federal, State and local laws.

WASTE DISPOSAL METHOD: Aerosol cans, when emptied and depressurized through normal use, pose no disposal hazard and should be recycled. Consult Federal, State and local authorities for approve procedures.

N/A = NOT APPLICABLE - N/E = NOT ESTABLISHED - N/D = NOT DETERMINED - <= LESS THAN - >= MORE THAN