

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

**SECTION I - PRODUCT IDENTIFICATION**

**Product Name:** Metal Cleaner & Tarnish Remover  
**Product Number:** 420  
**Product Type:** AEROSOL  
**Formula:** Proprietary  
**Supplier's Name:** Terand Industries, Inc.  
**Supplier's Address:** P.O. Box 667770, Pompano Beach, FL 33066  
**DOT Ship Description:** CONSUMER COMMODITY, ORM-D

**Date Prepared:** 12/28/2007

**Information Phone:** (954) 974-5440  
**Emergency Phone:** (800) 535-5053

**HMIS Rating (Based on Aerosol Conc.):**  
0-Minimal 1-Slight 2-Moderate  
3-Serious 4-Extreme

<b>HEALTH:</b>	1
<b>FLAMMABILITY:</b>	2
<b>PHYSICAL HAZARD:</b>	1
<b>Personal Protection:</b>	B

**SECTION II - INGREDIENTS**

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>%WT</u>	<u>313/Chem</u>	<u>Skin</u>	<u>Carcinogen</u>	<u>PEL</u>	<u>TLV-TWA</u>
Citrus Terpene	5989-27-5	10 - 20	NO	NO	NO	400ppm	400ppm
Microcrystalline Silica	14808-60-7	5 - 15	NO	NO	YES	*see below	*see below
Oleic Acid	112-80-1	1 - 10	NO	NO	NO	N/E	N/E
Triethanolamine	102-71-6	1 - 10	NO	NO	NO	N/E	5 mg/m3
Liquefied Petroleum Gas	68476-86-8	1 - 10	NO	NO	NO	1000 ppm	1000 ppm

\*Exposure limits are for dust form only of microcrystalline silica. This is not expected to pose a risk when used in accordance with label directions.  
OSHA PEL-TWA for crystalline silica (as respirable quartz) is 10mg/m3 divided by the value "%SiO2 + 2."  
ACGIH TLV-TWA for crystalline silica (respirable fraction) is 0.05 mg/m3.

**SECTION III - PHYSICAL DATA**

**Aerosol Concentrate:**

**Boiling Point:** 212 °F  
**pH:** 8.6  
**Appearance/Odor:** Milky, white foam with citrus fragrance

**Specific Gravity (H2O=1)@70 °F:** 0.973  
**Solubility In Water:** Complete  
**Vapor Density(Air=1):** >1

**Total Contents:**

**Total VOC %:** 27.78%  
**Vapor Pressure (can; psig @72 °F):** 55

**SECTION IV - FIRE AND EXPLOSION DATA**

**Flash Point (Conc.):** 130 °F (T.O.C.)  
**Extinguishing Media:** Foam, CO2, 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.

**Flammability (as per CSMA Flame Projection Test):** Non-Flammable Spray

**SECTION V - REACTIVITY DATA**

**Stability:** Material Stable.  
**Incompatibility:** Avoid contact with strong oxidizing agents.  
**Hazardous Decomposition Products:** Carbon Dioxide, Carbon Monoxide.

**Hazardous Polymerization:** Will not Occur.

**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 irritation accompanied by redness, stinging, tearing, and swelling of the eyes.  
**Skin:** Frequent or prolonged contact may cause irritation. May aggravate existing skin conditions.  
**Inhalation:** Inhalation of 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. While crystalline silica dust exposure can have severe health effects when inhaled at levels higher than the exposure limits listed in Section II, this is not expected to pose a significant risk when used in accordance with label directions as no dust is created. Intentional, abusive overexposure could lead to silicosis, fibrosis, cancer, and other systemic disease.  
**Ingestion:** Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause lung inflammation and other lung injury.

**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 air concentrations of ingredients listed in Section II below acceptable limits.  
**Protective Gloves:** Use chemical resistant gloves if hand contact will be made.  
**Eye Protection:** Always wear safety glasses or chemical proof goggles when working with chemicals.

**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 sweep 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 approved procedures.

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

**NOTICE:** The information contained on this Material Safety Data Sheet is considered accurate as of the date of publication. It is not necessarily all inclusive nor fully adequate in every circumstance. The suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, express or implied, of merchantability, fitness, accuracy of data, or the results to be obtained from the use thereof is made. The vendor assumes no responsibility for injury or damages resulting from the inappropriate use of this product.