

MATERIAL SAFETY DATA SHEET

COMPLIES WITH OSHA'S HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

SECTION I · PRODUCT IDENTIFICATION

Product Name: E-TRONIC Contact Cleaner
Product Number: 803
Product Type: AEROSOL
Supplier's Name: Terand Industries, Inc.
Supplier's Address: P.O. Box 667770, Pompano Beach, FL. 33066
D.O.T. Hazard Class: CONSUMER COMMODITY · ORM-D

Formula: Proprietary
Date Prepared: 07/20/05
Emergency Phone: (800) 255-3924
Information Phone: (954) 974-5440

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

SECTION II · INGREDIENTS

CHEMICAL NAME	CAS #	%WT	313/Chem	Skin	Carcinogen	PEL	TWA/TLV	AEL/TWA*
3,3-Dichloro-1,1,1,2,2-pentafluoropropane	422-56-0	60-70	YES	YES	NO	N/E	N/E	50 ppm
1,3-Dichloro-1,1,2,2,3-pentafluoropropane	507-55-1	01-10	YES	YES	NO	N/E	N/E	400 ppm
1,1,1,2 -Tetrafluoroethane	811-97-2	20-40	NO	NO	NO	N/E	N/E	1000 ppm

*AEL/TWA – Acceptable Exposure Limit (8h-TWA) established by manufacturer.

SECTION III · PHYSICAL DATA

Data Below Based On Aerosol Concentrate Only:

Boiling Point: ~ 124° F

pH: N/A

Solubility In Water: 0.040 wt.% @ 25° C

Appearance/Odor: Clear Colorless Liquid, Faint Ether-like Odor

Data Below Based On Total Contents:

Vapor Pressure of can (psig @70°F): 55

Total VOC (Volatile Organic Compounds) %: 0%

Vapor Density (Air=1): 7.0 @ 77° F

Specific Gravity @ 77°F: 1.55

SECTION IV · FIRE AND EXPLOSION DATA

Flash Point (of Concentrate Only): None - TCC

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

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.

SECTION V · REACTIVITY DATA

Stability: Material stable, however, avoid open flames & exposure to high temperatures.

Hazardous Polymerization: Will not occur.

Incompatibility: Incompatible with alkali or alkaline earth metals- powdered Al, Zn, Be, etc.

Hazardous Decomposition Products: Hydrochloric and Hydrofluoric acids, carbonyl halides, 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 moderate to severe irritation and frostbite.

Skin: May cause frostbite and irritation from defatting of skin. May aggravate existing skin conditions.

Inhalation: Inhalation of high concentrations of vapor is harmful and may cause heart irregularities, liver damage, unconsciousness, or death. Intentional misuse can be fatal. Vapors are heavier than air and may accumulate in low lying or confined areas reducing oxygen available for breathing.

Ingestion: Not likely to occur because of the physical properties of the product. Ingestion of small amounts is not likely to be hazardous. Ingestion of large quantities would likely cause gastrointestinal discomfort from excess pressure created by rapid evaporation and may result in irritation of the upper gastrointestinal tract.

FIRST AID PROCEDURES:

Eyes: In case of contact, immediately flush with large amounts of lukewarm water for at least 15 minutes while holding upper and lower lids open. Get medical attention.

Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Treat for frostbite if necessary by gently warming affected area. If irritation persists, get medical attention.

Inhalation: Immediately remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

Ingestion: Ingestion is not likely to occur. If it does, do not induce vomiting. Get medical attention.

Note to Physician: Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should be used with special caution and only in situations of emergency life support. Treatment of overexposure should be directed at the control of symptoms and the clinical conditions.

SECTION VIII · SPECIAL PROTECTION DATA

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

Ventilation: Provide local exhaust to keep air concentration of ingredients listed in Section II below established exposure limits.

Protective Gloves: Use chemical resistant gloves (neoprene preferred) to help prevent skin contact.

Eye Protection: Wear chemical resistant safety glasses or splash 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 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.