



MATERIAL SAFETY DATA SHEET

PRODUCT NAME: T-RUST
CS12

SECTION 1: PRODUCT INFORMATION

Distributed By: Bridgepoint Systems, 542 West Confluence Ave, Salt Lake City, Utah 84123
Company Phone Number: 801-261-1282
Emergency Phone Number: 1-800-535-5053 (Infotrac)
Date Prepared: 1-25-02 c

Hazard Rating (Zero=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)
Fire: 0 Health: 2 Reactivity: 0

SECTION 2: INGREDIENTS

<u>PRINCIPLE HAZARDOUS INGREDIENTS :</u>	<u>Oral LD</u>	<u>TLV</u>	<u>%</u>
Ammonium Hydrogen Fluoride (CAS #1341-49-7)	300 mg/kg	35 ppm	5
Dipropylene Glycol Monomethyl Ether (CAS #34590-94-8)	5.4 mg/kg	100 ppm	5

SECTION 3: PHYSICAL DATA

Boiling Point (°F)..... 212° F	Specific Gravity(H ₂ O=1)..... 1.01
Vapor Pressure (mmHg.)..... N/A	Percent Volatile by Volume... N/A
Vapor Density (AIR=1)..... Heavier than air	PH (1% Solution).....4.5
Solubility in Water.....100%	
Appearance & Odor.....Liquid, non-viscous, faint sweet odor	

SECTION 4: FIRE, EXPLOSION & REACTIVITY DATA

Flash Point: Non-Flammable
Extinguishing Media: Use whatever is appropriate for surrounding materials involved in fire
Special Fire Fighting Procedures: Wear self contained breathing apparatus. Protective clothing for skin and eye protection should be worn.
Unusual Fire and Explosion Hazards: None known.
Stability: Stable.
Chemical Incompatibility: Strong acids or alkalize
Hazardous Decomposition or Byproducts: Thermal decomposition causes liberation of HF & NH₃.
Contact with bases causes liberation of NH₃ and with acids, HF
Hazardous Polymerization: Will not occur.
Conditions to Avoid: Excessive heat and contamination of any kind

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SECTION 5: HEALTH HAZARD INFORMATION

Route(s) of entry	Eyes? Yes Skin? Yes Inhalation? Yes Ingestion? Yes
Health Hazards:	Eyes –May cause irritation. Skin –May cause irritation. Inhalation –May cause coughing, sneezing & other more severe irritations. Ingestion – Will cause irritation to mucous membranes of the mouth & throat. Swallowing will cause severe burning of throat, esophagus and digestive tract accompanied by severe pain, vomiting and collapse. Note: Repeated exposure to fluoride containing products may cause fluoride poisoning which may cause death
Carcinogenicity:	NTP? No OSHA? No IARC Monograph? No

SECTION 6: EMERGENCY AND FIRST AID PROCEDURES

Eyes.....	Flush with water for 20-30 minutes. Get medical attention
Skin.....	Flush with water for 15 minutes. Get medical attention. Remove contaminated clothing.
Inhalation..	Move to fresh air. Give artificial respiration if not breathing. Get immediate medical attention
Ingestion...	Do not induce vomiting. Give large quantities of water. Get immediate medical attention

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

Respiratory Protection...	Use a NIOSH/MSHA approved respirator.
Protective Clothing.....	Rubber gloves recommended.
Eye Protection.....	Safety goggles recommended.
Ventilation.....	Use with adequate ventilation - avoid prolonged exposure to vapors.
Storage.....	Store in a cool dry place (above freezing point), away from incompatible materials. Store in tightly closed container when not in use.

SECTION 8: SPILL OR LEAK PROCEDURES AND WASTE DISPOSAL

For small spills, dilute with water, mop or wipe up and contain. For large spills, contain with absorbent material and carefully neutralize with lime. Keep material out of sewers, storm drains, all waterways and soil. **All disposals must be in accordance with all federal, state and local regulations.**

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N/A = Not applicable N/D = Not determined N/E = Not established