



# 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 <sub>2</sub> 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 & NH<sub>3</sub>.

Contact with bases causes liberation of NH<sub>3</sub> and with acids, HF

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** Excessive heat and contamination of any kind

**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**

Contain with chemical absorbent material. Do not dispose of on the land, in surface waters, or in storm drains. Small spills and waste may be flushed into a waste treatment sewer where local regulations permit. Larger quantities should be collected for reuse or consigned to a licensed hazardous waste hauler for disposal in accordance with federal, state and local regulations. **All disposal 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