

31 Incorporated  
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## MATERIAL SAFETY DATA SHEET

24 Hour Emergency Service: CHEM•TEL INC. (800) 255-3924

### I. IDENTIFICATION

PRODUCT NAME: #14-490 Non-Flammable Buffing Solution  
CHEMICAL NAME: Solvent Blend  
FORMULA: Trichloroethylene, Xylene  
SYNONYMS:  
DOT CLASS:  
TRANSPORTATION: 49 CFR 172-101  
CAS#: 79-01-6, 1330-20-7

CHEMICAL FAMILY:  
MOLECULAR WEIGHT:  
HAZARD CLASSIFICATION NOS. UN2810  
SHIPPING NAME: Poisonous Liquids N.O.S., 6.1, PGIII  
CAS NAME: N/A

### II. PHYSICAL DATA

BOILING POINT: H: 286° F L: 188° F  
SPECIFIC GRAVITY: 1.33  
VAPOR DENSITY: 4.5 (Air = 1)  
PERCENT VOLATILES BY VOLUME:  
APPEARANCE AND ODOR: Clear Liquid, solvent odor

FREEZING POINT: N/A  
VAPOR PRESSURE AT 20° C.:  
EVAPORATION RATE: >1 (NBA=1)  
SOLUBILITY IN WATER: Nil

### III. INGREDIENTS

MATERIAL	%	TLV UNITS	HAZARD	CAS#
Trichloroethylene	75 - 85			79-01-06
Xylene	15 - 25			1330-20-7

### IV. FIRE AND EXPOSURE HAZARD DATA

FLASH POINT (TEST METHODS): Class 3 B  
FLAMMABLE LIMITS IN AIR (% BY VOLUME): LOWER: N/A ; UPPER: N/A  
EXTINGUISHING MEDIA: CO2, Dry Chemical, Foam  
SPECIAL FIRE FIGHTING PROCEDURES:  
Use breathing apparatus

UNUSUAL FIRE & HAZARD EXPLOSION HAZARDS:  
N/A

**V. HEALTH HAZARD DATA**

EXPOSURE LIMITS TLV, PEL, AND SOURCE: 50 PPM  
ACUTE EFFECTS OF OVEREXPOSURE: Dizziness, drowsiness, throat irritation  
SWALLOWING:  
SKIN ABSORPTION:  
INHALATION: Minimal effects observed below 1000 PPM  
SKIN CONTACT: Irritation, defatting, dermatitis, absorption through skin possible.  
EYE CONTACT: Irritation, burning, redness, swelling.  
  
CHRONIC EFFECTS OF OVEREXPOSURE: None known  
OTHER HEALTH HAZARDS: None known

**EMERGENCY & FIRST AID PROCEDURES**

SWALLOWING: DO NOT induce vomiting. Seek immediate medical attention.  
SKIN: Remove contaminated clothing. Wash well with soap and water.  
INHALATION: Move to fresh air. If not breathing use CPR. Seek immediate medical attention.  
EYES: Flush eyes immediately with water for at least 15 minutes. If irritation persists, seek medical attention.

PRIMARY ROUTE OF ENTRY: Skin  
NOTE TO PHYSICIAN: EMERGENCY RESPONSE GUIDEBOOK in 27

**VI. REACTIVITY DATA**

STABILITY

UNSTABLE: STABLE: X CONDITIONS TO AVOID:  
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizer, barium, lithium, magnesium  
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS: Hydrogen chloride, phosgene, titanium & chlorine

HAZARDOUS POLYMERIZATION

MAY OCCUR: WILL NOT OCCUR: X CONDITIONS TO AVOID: Aluminum in pressured fluid systems.

**VII. SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:  
Absorb all possible. Keep out of drains.  
WASTE DISPOSAL METHOD:  
Dispose of in accordance with Federal, State, and Local regulations.

**VIII. SPECIAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION (SPECIFY TYPE): NIOSH approved.  
VENTILATION: To eliminate vapor concentrate, use in a well ventilated area.  
PROTECTIVE GLOVES: Viton EYE PROTECTION: Safety goggles  
OTHER PROTECTIVE EQUIPMENT: Apron, boots (solvent resistant)

**IX. SPECIAL PRECAUTIONS**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:**

Wear solvent resistant gloves, boots, and headgear if splashing.

**OTHER PRECAUTIONS:**

**X. CARCINOGEN EVALUATION**

This compound is classified by the International Agency for Cancer Research as group 2B. Possibly cancerous of humans. Prolonged or repeated overexposure may result in delayed kidney or liver damage.

**XI. MSDS PREPARATION INFORMATION**

**THIS MSDS WAS PREPARED BY:**

Charles Muhs  
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**THIS MSDS WAS LAST UPDATED ON:** (DATE) Jan. 1, 2010

**XII. HMIS RATING**

<b>HEALTH:</b>	<b>FLAMMABILITY:</b>	<b>REACTIVITY:</b>	<b>PERSONAL PROTECTIVE EQUIP.:</b>
3	2	0	3

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