



**Chemical Name:** Enviro Tech 1676

**Manufacturer:** Tech Spray

**Container size:** 12oz.

**Location:** VLA

**Disposal:** Place empty container in trash.

**MATERIAL SAFETY DATA SHEET**

Finished Product



**Date Issued:** 12/30/2002  
**MSDS No:** 1679-B  
**Date Revised:** 03/02/2012  
**Revision No:** 5

**Envi-Ro-Tech 1679****1. PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Envi-Ro-Tech 1679  
**GENERAL USE:** General Purpose Flux Remover  
**PRODUCT DESCRIPTION:** Light Duty Defluxer  
**PRODUCT CODE:** 1679/CAN/EUR-PT  
**ACTIVE INGREDIENT(S):** 2-Propanol

**MANUFACTURER**

Techspray, L.P.  
 1001 N.W. 1st Street  
 P.O. Box 949  
 Amarillo, TX 79107

**Emergency Contact:** Chemtrec  
**Emergency Phone:** 1-800-858-4043  
**Service Number:** 1-800-858-4043

**24 HR. EMERGENCY TELEPHONE NUMBERS**

**CHEMTREC CCN#21858 (US Transportation) :**(800) 424 - 9300  
**CANUTEC (Canadian Transportation) :**(613) 996 - 6666  
**Emergency Phone :**(800) 858 - 4043

**2. HAZARDS IDENTIFICATION****HAZARD DESIGNATION**

"F" - Highly flammable  
 R11 - Highly flammable.  
 "T" - Toxic  
 R23/25 - Toxic by inhalation and if swallowed.  
 R63 - Possible risk of harm to the unborn child.  
 "N" - Dangerous for the environment  
 R52 - Harmful to aquatic organisms.

**EMERGENCY OVERVIEW**

**PHYSICAL APPEARANCE:** Clear, Colorless, Volatile Liquid

**IMMEDIATE CONCERNS:** Flammable liquid and vapor.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Moderately irritating to the eyes.

**SKIN:** Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

**SKIN ABSORPTION:** Skin absorption can occur.

**INGESTION:** This product is toxic by ingestion. Ingestion may cause irritation of the digestive tract. Nausea and vomiting will most likely occur.

**INHALATION:** High concentrations in immediate area can displace oxygen and can cause dizziness, unconsciousness, and possibly death with longer exposure. Keep people away from such vapors without self-contained breathing apparatus.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

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Chemical Name	Wt.%	CAS	EINECS
2-Propanol	40 - 60	67-63-0	200-661-7
Ethanol	40 - 60	64-17-5	200-578-6
Methanol	5 - 10	67-56-1	200-659-6

**4. FIRST AID MEASURES**

**EYES:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**SKIN:** Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

**INGESTION:** Do not induce vomiting. Give milk or water. Get immediate medical attention immediately.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

**5. FIRE FIGHTING MEASURES**

**FLASHPOINT AND METHOD:** 11.7°C (53°F) TAG CC

**FLAMMABLE LIMITS:** 2.0 to 12.0

**EXTINGUISHING MEDIA:** Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

**HAZARDOUS COMBUSTION PRODUCTS:** Smoke, fumes and oxides of carbon.

**EXPLOSION HAZARDS:** Vapors, when present in the flammable range (listed above), especially in a confined or poorly ventilated space, can be ignited with a flame or high intensity source of heat.

**FIRE FIGHTING PROCEDURES:** Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

**FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**GENERAL PROCEDURES:** Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on adsorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. After all visible traces, including vapors, have been removed thoroughly wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth, gravel, etc. as necessary and place in closed containers for disposal.

**SPECIAL PROTECTIVE EQUIPMENT:** Only personnel equipped with proper respiratory and skin/eye protection should be permitted in area. See Section 8 for details.

**COMMENTS:** Remove all sources of ignition. Use spark-proof tools.

**7. HANDLING AND STORAGE**

**GENERAL PROCEDURES:** Use spark proof tools and explosion proof equipment.

**HANDLING:** Ground and bond containers when transferring material.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
2-Propanol	TWA	400 ppm	980 mg/m <sup>3</sup>	400 ppm	983 mg/m <sup>3</sup>	NL [1]	NL [1]
	STEL	500 ppm	1225 mg/m <sup>3</sup>	500 ppm	1230 mg/m <sup>3</sup>	NL	NL
Ethanol	TWA	1000 ppm	1900 mg/m <sup>3</sup>	1000 ppm	1880 mg/m <sup>3</sup>	NL	NL
	STEL	NL ppm	NL mg/m <sup>3</sup>	NL ppm	NL mg/m <sup>3</sup>	NL	NL
Methanol	TWA	S 200 ppm [2]	260 mg/m <sup>3</sup> [2]	S 200 ppm	262 mg/m <sup>3</sup>	NL ppm	NL mg/m <sup>3</sup>
	STEL	250 ppm	310 mg/m <sup>3</sup>	250 ppm	328 mg/m <sup>3</sup>	NL ppm	NL

**OSHA TABLE COMMENTS:**  
**1.** NL = Not Listed  
**2.** S = Skin

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

**SKIN:** The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Viton, Solvex, Butyl, Buna, Neoprene.

**RESPIRATORY:** NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Flash Point (°C)	Boiling Point (°C)	Specific Gravity
2-Propanol	11.7	82.4	0.785

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**PHYSICAL STATE:** Liquid  
**ODOR:** Alcohol odor  
**APPEARANCE:** Clear, Colorless liquid  
**pH:** Neutral  
**PERCENT VOLATILE:** 100  
**VAPOR PRESSURE:** 33 mmHg at 20°C  
**VAPOR DENSITY:** 2.1 (Air=1)  
**BOILING POINT:** to 80°C (176°F)  
**FREEZING POINT:** to -88°C  
**FLASHPOINT AND METHOD:** 11.7°C (53°F) TAG CC  
**SOLUBILITY IN WATER:** Moderate  
**EVAPORATION RATE:** > 1 to 1.7 (n-Butyl Acetate=1)  
**SPECIFIC GRAVITY:** to 0.790 (water=1)  
**(VOC):** 750.000 to 800 g/L (non-exempt VOC)

**10. STABILITY AND REACTIVITY**

**STABLE:** Yes  
**HAZARDOUS POLYMERIZATION:** No  
**STABILITY:** Stable under normal conditions.  
**POLYMERIZATION:** Will not occur.  
**CONDITIONS TO AVOID:** Heat, flames, ignition sources, and incompatibles.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of Carbon (CO and CO<sub>2</sub>) may form when heated to decomposition.  
**INCOMPATIBLE MATERIALS:** Strong acids and alkalis, reactive metals and strong oxidizing agents.

**11. TOXICOLOGICAL INFORMATION****ACUTE**

Chemical Name	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)	INHALATION LC <sub>50</sub> (rat)
Methanol	6.2 to 12.98 mg/kg	16 g/kg	64000 ppm

**DERMAL LD<sub>50</sub>:** 12800 mg/kg (rabbit)**ORAL LD<sub>50</sub>:** 5045 mg/kg (rat)**INHALATION LC<sub>50</sub>:** 16000 ppm, 8-hour**EYE EFFECTS:** Draize test, rabbit, eye: 100 mg Severe; Draize test, rabbit, eye: 10 mg Moderate**SKIN EFFECTS:** Draize test, rabbit, skin: 500 mg Mild.**CARCINOGENICITY**

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Chemical Name	NTP Status	IARC Status	OSHA Status
2-Propanol	NOT LISTED	NOT LISTED	NOT LISTED
Ethanol	NOT LISTED	NOT LISTED	NOT LISTED
Methanol	NOT LISTED	NOT LISTED	NOT LISTED

**IARC:** NOT listed**NTP:** NOT listed**OSHA:** NOT listed**TERATOGENIC EFFECTS:** Test results indicate this compound/mixture is not teratogenic.**12. ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION:** Isopropyl alcohol has a high biochemical oxygen demand and a potential to cause oxygen depletion in aqueous systems, a low potential to affect aquatic organisms, a low potential to affect secondary waste treatment microbial metabolism, a low potential to affect the germination of some plants, a high potential to biodegrade (low persistence) with unacclimated microorganisms from activated sludge.

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Federal, State, and Local laws governing disposal of materials can differ. Ensure compliance with proper authorities before disposal.

**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)****PROPER SHIPPING NAME:** CONSUMER COMMODITY**PRIMARY HAZARD CLASS/DIVISION:** ORM-D**ROAD AND RAIL (ADR/RID)****KEMLER NUMBER:** UN1987**HAZARD CLASS:** 3**AIR (ICAO/IATA)****SHIPPING NAME:** CONSUMER COMMODITY ORM-D**UN/NA NUMBER:** ID8000**PRIMARY HAZARD CLASS/DIVISION:** 9**VESSEL (IMO/IMDG)****SHIPPING NAME:** Alcohols N.O.S.**TECHNICAL NAME:** (ISOPROPANOL, ETHANOL)**UN/NA NUMBER:** UN1987**PRIMARY HAZARD CLASS/DIVISION:** 3

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PACKING GROUP: II

**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****FIRE:** Yes **ACUTE:** Yes **CHRONIC:** Yes**313 REPORTABLE INGREDIENTS:** 2-propanol (CAS #67-63-0) Methanol**EPCRA SECTION 313 SUPPLIER NOTIFICATION**

Chemical Name	Wt. %	CAS
2-Propanol	40 - 60	67-63-0
Methanol	5 - 10	67-56-1

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)****CERCLA REGULATORY:** Methanol (#67-56-1)

Chemical Name	Wt. %	CERCLA RQ
Methanol	5 - 10	5000 lbs.

**CERCLA RQ:** 5000 lbs**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

Chemical Name	CAS
2-Propanol	67-63-0
Ethanol	64-17-5
Methanol	67-56-1

**CANADA****WHMIS CLASS:** Class B2 - Flammable Liquids. Class D2B - Toxic Materials.**CANADA INGREDIENT DISCLOSURE LIST:** CAS# 67-63-0 is listed on Canada's Ingredient Disclosure List.**DOMESTIC SUBSTANCE LIST (INVENTORY):** All components of this product are listed on the Canadian DSL.**EUROPEAN COMMUNITY**

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**Envi-Ro-Tech 1679****EEC LABEL SYMBOL AND CLASSIFICATION**

"F" - Highly flammable  
 R11 - Highly flammable.



"T" - Toxic  
 R23/25 - Toxic by inhalation and if swallowed.

R63 - Possible risk of harm to the unborn child.



"N" - Dangerous for the environment  
 R52 - Harmful to aquatic organisms.

**16. OTHER INFORMATION**

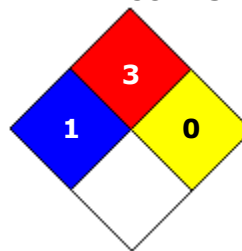
**APPROVED BY:** Pierce A. Pillon     **TITLE:** Chemist

**PREPARED BY:** Steve Cook

**REVISION SUMMARY:** This MSDS replaces the 11/30/2006 MSDS.

**HMIS RATING**

<b>HEALTH</b>	<input type="checkbox"/>	<b>2</b>
<b>FLAMMABILITY</b>	<input type="checkbox"/>	<b>3</b>
<b>PHYSICAL HAZARD</b>	<input type="checkbox"/>	<b>1</b>
<b>PERSONAL PROTECTION</b>	<input type="checkbox"/>	

**NFPA CODES**

**DATA SOURCES:** Code of Federal Regulations (CFR) The Sigma-Aldrich Library of Regulatory and Safety Data  
 OSHA Hazard Communication Standard (29CFR1910.1200) Various Federal, State and Local Regulations

**GENERAL STATEMENTS:** This MSDS was reviewed on 30 Nov. 2006.

**MANUFACTURER DISCLAIMER:** To the best of our knowledge, the information contained herein is accurate. However, neither Tech Spray, L.P., or any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.