

Date Issued: 08/02/2012 MSDS No: 1610-12S

**E-Line IPA** 

#### **1. PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: E-Line IPA PRODUCT DESCRIPTION: Electronic Cleaner PRODUCT CODE: 1610-12S ACTIVE INGREDIENT(S): 2-Propanol

#### MANUFACTURER

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC CCN#21858 (US Transportation) :(800) 424 - 9300

CANUTEC (Canadian Transportation) :(613) 996 - 6666

Emergency Phone: (800) 858 - 4043

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

### **ct:** Chemtrec

#### 2. HAZARDS IDENTIFICATION

#### **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.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Contact may cause eye irritation.

SKIN: Prolonged exposure causes redness, pain, drying and cracking of the skin.

**INGESTION:** Harmful if swallowed.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
2-Propanol	65 - 75	67-63-0	200-661-7
1,1-difluoroethane (HFC-152a)	25 - 35	75-37-6	

#### 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



Date Issued: 08/02/2012 MSDS No: 1610-12S

### **E-Line IPA**

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

Notes: Expressed for 2-propanol. Flash pt for propellant 1,1-difluoroethane is <-58F.

FLAMMABLE LIMITS: 2.0 to 12.0

**Notes:** Expressed for 2-propanol.

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

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon dioxide, carbon monoxide, fluorine, hdryofluoric acid, carbonyl halides.

**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 intesity 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.

**STORAGE:** Store in a cool place in original container and protect from sunlight. Keep away from heat and flame.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION



Date Issued: 08/02/2012 MSDS No: 1610-12S

#### **E-Line IPA**

#### **EXPOSURE GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL ACGIH TLV S		Suppl	SupplierOEL		
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
2 Bronanol	тwа	400 ppm	980 mg/m3	400 ppm	983 mg/m3	NL <sup>[1]</sup>	NL <sup>[1]</sup>
2-Propanol	STEL	500 ppm	1225 mg/m3	500 ppm	1230 mg/m3	NL	NL
OSHA TABLE COMMENTS: 1. NL = Not Listed			· · · · ·				·

**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.

WORK HYGIENIC PRACTICES: Avoid contact with eyes. Avoid fume inhalation. Limit skin contact.

**OTHER USE PRECAUTIONS:** Emergency shower and eyewash facility should be in close proximity.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

PHYSICAL STATE: Liquid ODOR: Alcohol odor APPEARANCE: Clear, Colorless liquid pH: Neutral PERCENT VOLATILE: 100 VAPOR PRESSURE: 33 mmHg at 20°C Notes: Expressed for 2-propanol. VAPOR DENSITY: 2.07 (Air=1) Notes: Expressed for 2-propanol. BOILING POINT: 82°C (180°F)



Date Issued: 08/02/2012 MSDS No: 1610-12S

**E-Line IPA** 

FREEZING POINT: to -88°C

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

Notes: Expressed for 2-propanol. Flash pt for propellant 1,1-difluoroethane is <-58F.

SOLUBILITY IN WATER: Miscible

**EVAPORATION RATE:** to 1.7 (n-Butyl Acetate=1)

SPECIFIC GRAVITY: 0.785 (water=1)

**(VOC):** 75.000 % by weight (EPA)

#### **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 incompatables.

**HAZARDOUS DECOMPOSITION PRODUCTS:** When exposed to high temperatures or flames this product may form fluorocarbons and hydrogen fluoride.

**INCOMPATIBLE MATERIALS:** Strong acids and alkalis, reactive metals and strong oxidizing agents.

#### **11. TOXICOLOGICAL INFORMATION**

#### ACUTE

DERMAL LD<sub>50</sub>: 12800 mg/kg (rabbit)

ORAL LD50: 5045 mg/kg (rat)

INHALATION LC50: 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

Chemical Name	NTP	IARC	OSHA
	Status	Status	Status
2-Propanol	NOT	NOT	NOT
	LISTED	LISTED	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.



Date Issued: 08/02/2012 MSDS No: 1610-12S

### **E-Line IPA**

#### 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 ORM-D

AIR (ICAO/IATA)

SHIPPING NAME: CONSUMER COMMODITY ID8000

#### PRIMARY HAZARD CLASS/DIVISION: 9

#### VESSEL (IMO/IMDG)

SHIPPING NAME: AEROSOLS IN LIMITED QUANTITIES OF CLASS 2

UN/NA NUMBER: 1950

PRIMARY HAZARD CLASS/DIVISION: 2.1

PACKING GROUP: II

#### **15. REGULATORY INFORMATION**

#### UNITED STATES

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

FIRE: Yes PRESSURE GENERATING: Yes ACUTE: Yes CHRONIC: Yes

**313 REPORTABLE INGREDIENTS:** 2-propanol (CAS #67-63-0)

#### **EPCRA SECTION 313 SUPPLIER NOTIFICATION**

Chemical Name	Wt.%	CAS
2-Propanol	65 - 75	67-63-0

#### **TSCA (TOXIC SUBSTANCE CONTROL ACT)**

Chemical Name	CAS
2-Propanol	67-63-0
1,1-difluoroethane (HFC-152a)	75-37-6

**TSCA STATUS:** All chemicals in this product are listed in the TSCA inventory.

#### CANADA

WHMIS CLASS: Class A, B5, D2B (Aerosol, Flammable Aerosol, Toxic Materials)

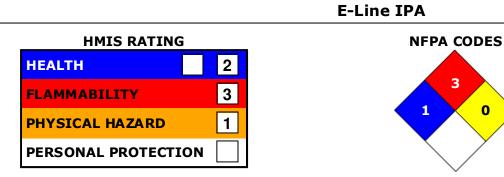
**CANADA INGREDIENT DISCLOSURE LIST:** CAS# 67-63-0 is listed on Canada's Ingredient Disclosure List. **DOMESTIC SUBSTANCE LIST (INVENTORY):** All components of this product are listed on the Canadian DSL.

**16. OTHER INFORMATION** 

APPROVED BY: Pierce A. Pillon TITLE: Chemist

# TECHSPRAY

Date Issued: 08/02/2012 **MSDS No:** 1610-12S



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

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