

1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b> TEL-X PLUS AEROSOL	<b>Product Code</b> 5496
<b>Recommended Use</b> Lubricant	<b>Chemical Nature</b> Resins in solution
<b>Information on Manufacturer</b>	<b>Emergency Telephone Number</b>
CHEMSEARCH DIV. OF NCH CORP.	CHEMTREC ® 800-424-9300
BOX 152170	
IRVING, TX 75015	

2. HAZARDS IDENTIFICATION

<b>Emergency Overview</b>
DANGER!
Extremely flammable
Severe eye irritation
Causes skin irritation
May be harmful if inhaled
Harmful if swallowed

<b>Color</b> White	<b>Physical State</b> Liquid	<b>Odor</b> Alcoholic
<b>Potential Health Effects</b>		
<b>Principle Route of Exposure</b>	Eye contact, Skin contact, Inhalation.	
<b>Primary Routes of Entry</b>	Inhalation, Skin Absorption.	
<b>Acute Effects</b>		
Eyes	Severe eye irritant.	
Skin	Causes skin irritation.	
Inhalation	Causes respiratory tract irritation. Causes headache, drowsiness or other effects to the central nervous system.	
Ingestion	Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea .	
<b>Chronic Effects</b>	May cause polymer fume fever, a temporary flu-like illness accompanied by chills, fever, and a cough. This can last up to 24 hours in duration . Prolonged or repeated exposure increases the risk.	
<b>Target Organ Effects</b>	Eyes, Skin, Respiratory system, Central nervous system.	
<b>Aggravated Medical Conditions</b>	Skin disorders. Neurological disorders. Respiratory disorders.	
<b>Potential Environmental Effects</b>	See Section 12 for additional Ecological information	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Butane	106-97-8
Isopropyl alcohol	67-63-0
Polytetrafluoroethylene	9002-84-0

The product contains no substances which at their given concentration, are considered to be hazardous to health

4. FIRST AID MEASURES

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes . Get medical attention immediately.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention immediately.
	Wash contaminated clothing before re-use.
<b>Inhalation</b>	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
<b>Notes to Physician</b>	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

<b>Flash Point</b> 53°F / 12°C	<b>Method</b> Seta closed cup
<b>Autoignition Temperature</b> No information available	
<b>Flammability Limits in Air</b>	<b>Upper</b> 12.7 <b>Lower</b> 1.8
<b>Suitable Extinguishing Media</b>	
Foam. Alcohol-resistant foam . Dry chemical. Water spray.	
<b>Unsuitable Extinguishing Media</b>	
None known.	
<b>Specific Hazards Arising from the Chemical</b>	
Solvent vapors are heavier than air and may spread along floors . Vapors may ignite and explode. Flame extension: 30 inches / 75 cm and Burnback: 0 inches / 0 cm	
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<b>Protective Equipment and Precautions for Firefighters</b>	
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear	
<b>NFPA</b> <b>Health</b> 2 <b>Flammability</b> 4 <b>Instability</b> 0	
<b>HMIS</b> <b>Health</b> 2 <b>Flammability</b> 4 <b>Instability</b> 0	

6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Wear protective gloves/clothing.
<b>Environmental Precautions</b>	Do not flush into surface water or sanitary sewer system.
<b>Methods for Containment</b>	No information available
<b>Methods for Cleaning Up</b>	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

## 7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing.				
Storage	Keep away from heat and sources of ignition. Keep out of the reach of children.				
Storage Temperature	Minimum	35°F / 2°C	Maximum	120°F / 49°C	
Storage Conditions	Indoor	X	Outdoor	Heated	Refrigerated

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Butane	TWA: 1000 ppm	no data available	TWA: 1900 mg/m <sup>3</sup> TWA: 800 ppm
Isopropyl alcohol	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup>	IDLH: 2000 ppm STEL 500 ppm STEL 1225 mg/m <sup>3</sup> TWA: 980 mg/m <sup>3</sup> TWA: 400 ppm
Polytetrafluoroethylene	No data available	no data available	no data available

## Engineering Measures

Ensure adequate ventilation, especially in confined areas. Handle only in a place equipped with local exhaust (or other appropriate exhaust).

## Personal Protective Equipment

## Eye/Face Protection

Tightly fitting safety goggles

## Skin Protection

Neoprene gloves.

## Respiratory Protection

Use NIOSH approved respiratory protection.

## General Hygiene Considerations

Do not get in eyes, on skin, or on clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Viscosity	Slight Viscous
Color	White	Odor	Alcoholic
Appearance	Cloudy	pH	4 - 6
Specific Gravity	0.69	Bulk Density	No data available
Evaporation Rate	50.97	Percent Volatile (Volume)	94.9
VOC Content (%)	No information available	Vapor Pressure	1312 mmHg @ 70 °F
Vapor Density	1.9	Solubility	Moderately soluble
Boiling Point/Range	180°F / 82°C		

## 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions
Conditions to Avoid	Heat, flames, and sparks
Incompatible Products	No materials to be especially mentioned
Hazardous Decomposition Products	Carbon oxides. Hydrogen fluoride. Fluorinated hydrocarbons.
Possibility of Hazardous Reactions	None under normal processing

## 11. TOXICOLOGICAL INFORMATION

Product Information	The product itself has not been tested
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## Component Information

## Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Butane	no data available	no data available	658 g/m <sup>3</sup> ( Rat ) 4 h	no data available	no data available
Isopropyl alcohol	4396 mg/kg ( Rat )	12800 mg/kg ( Rabbit ) 12800 mg/kg ( Rat )	72.6 mg/L ( Rat ) 4 h	no data available	no data available
Polytetrafluoroethylene	no data available	no data available	45 mg/m <sup>3</sup> ( Rat ) 30 min	no data available	no data available

## Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Butane	no data available	no data available	no data available	no data available	CNS
Isopropyl alcohol	no data available	no data available	no data available	no data available	eyes, skin, respiratory system
Polytetrafluoroethylene	no data available	no data available	no data available	no data available	no data available

## Carcinogenicity

There are no known carcinogenic chemicals in this product

Component	ACGIH	IARC	NTP	OSHA	Other
Butane	not applicable	not applicable	not applicable	not applicable	not applicable
Isopropyl alcohol	not applicable	not applicable	not applicable	not applicable	not applicable
Polytetrafluoroethylene	not applicable	not applicable	not applicable	not applicable	not applicable

## 12. ECOLOGICAL INFORMATION

Product Information	The product itself has not been tested
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## Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Butane	no data available	no data available	no data available	no data available	2.89
Isopropyl alcohol	EC50> 1000 mg/L Scenedesmus	LC50= 61200 mg/L Pimephales promelas 96 h	EC50 = 35390 mg/L 5 min	EC50 = 13299 mg/L 48 h	0.05

	subspicatus 72 h EC50> 1000 mg/L Scenedesmus subspicatus 96 h	LC50= 94900 mg/L Pimephales promelas 96 h LC50= 9640 mg/L Pimephales promelas 96 h			
Polytetrafluoroethylene	no data available	no data available	no data available	no data available	N/A

<b>Persistence and Degradability</b>	No information available
<b>Bioaccumulation</b>	No information available
<b>Mobility</b>	No information available

## 13. DISPOSAL CONSIDERATIONS

<b>Product Disposal</b>	Dispose of in accordance with local regulations
<b>Container Disposal</b>	Warning! Container under pressure Empty remaining contents Do not puncture.

## 14. TRANSPORT INFORMATION

## DOT

<b>Proper Shipping Name</b>	Consumer commodity
<b>Hazard Class</b>	ORM-D
<b>Description</b>	Consumer commodity ,ORM-D,

## TDG

<b>Proper shipping name</b>	Aerosols
<b>Hazard Class</b>	2.1
<b>UN-No</b>	UN1950
<b>Description</b>	AEROSOLS,2.1,UN1950 LTD. QTY.

## ICAO

<b>UN-No</b>	UN1950
<b>Proper Shipping Name</b>	Aerosols
<b>Hazard Class</b>	2.1
<b>Shipping Description</b>	Aerosols,UN1950 LTD. QTY.

## IATA

<b>UN-No</b>	UN1950
<b>Proper Shipping Name</b>	Aerosols, flammable
<b>Hazard Class</b>	2.1
<b>ERG Code</b>	10L
<b>Shipping Description</b>	UN1950,Aerosols, flammable,2.1 LTD. QTY.

## IMDG/IMO

<b>Proper Shipping Name</b>	Aerosols
<b>Hazard Class</b>	2.1
<b>UN-No</b>	UN1950
<b>EmS No.</b>	F-D, S-U
<b>Shipping Description</b>	UN1950, Aerosols,2.1 LIMITED QUANTITIES

## 15. REGULATORY INFORMATION

## Inventories

<b>TSCA</b>	Complies
<b>DSL</b>	Complies

## U.S. Federal Regulations

## SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372.

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Isopropyl alcohol	67-63-0	60-70	1.0

## SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	Yes	Yes	No

## CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Butane	Not applicable	Not applicable
Isopropyl alcohol	Not applicable	Not applicable
Polytetrafluoroethylene	Not applicable	Not applicable

## Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

## WHMIS Hazard Class

A Compressed gases, B5 Flammable aerosol, D2B Toxic materials .



## 16. OTHER INFORMATION

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Prepared By	Kamal Singh
Supersedes Date	28-Jan-2004
Issuing Date	31-Mar-2008
Reason for Revision	No information available
Glossary	No information available
List of References	TBD

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