

1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b> TEL-X PLUS AEROSOL <b>Recommended use</b> Lubricant <b>Information on Manufacturer</b> CHEMSEARCH DIV. OF NCH CORP. BOX 152170 IRVING, TX 75015	<b>Product Code</b> 5496 <b>Chemical nature</b> Resins in solution <b>Emergency Telephone Number</b> CHEMTREC 1-800-424-9300
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2. HAZARDS IDENTIFICATION

<b>Emergency Overview</b> DANGER! Extremely flammable May cause skin irritation Causes eye irritation May be harmful if inhaled May be harmful if swallowed
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<b>Color</b> white	<b>Physical State</b> Liquid	<b>Odor</b> Rubbing alcohol
<b>Potential Health Effects</b> <b>Principle Route of Exposure</b> <b>Primary Routes of Entry</b> <b>Acute Effects</b> <b>Eyes</b> <b>Skin</b> <b>Inhalation</b>  <b>Ingestion</b> <b>Chronic Toxicity</b>  <b>Target Organ Effects</b> <b>Aggravated Medical Conditions</b> <b>Potential Environmental Effects</b>	Inhalation, Skin contact, Eye contact. Inhalation  Causes eye irritation. May cause skin irritation. May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. May be fatal if inhaled in large quantities. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. 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. Liver and kidney injuries may occur. Eyes, Skin, Respiratory system, Central nervous system, Liver, Kidney. Skin disorders, Respiratory disorders, Neurological disorders, Liver disorders, Kidney disorders. See Section 12 for additional Ecological information.	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Isopropyl alcohol	67-63-0
Butane	106-97-8
Propane	74-98-6
Polytetrafluoroethylene	9002-84-0

4. FIRST AID MEASURES

<b>General Advice</b> <b>Eye Contact</b> <b>Skin Contact</b>  <b>Inhalation</b> <b>Ingestion</b>  <b>Notes to Physician</b>	Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists. Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use. If inhaled, remove to fresh air. Get medical attention if symptoms occur. Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person. Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

<b>Flash Point</b> 53 °F / 12 °C <b>Autoignition Temperature</b> No information available. <b>Flammability Limits in Air %</b> . <b>Suitable Extinguishing Media</b> Foam. Alcohol-resistant foam. Dry chemical. Water spray. Carbon dioxide (CO2). <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. <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>Aerosol Level (NFPA 30B) -</b> 3	<b>Method</b> Seta closed cup  <b>Upper</b> 12.7  <b>Lower</b> 1.8	<b>Instability</b> 0 <b>Instability</b> 0
<b>NFPA</b> Health 2 <b>HMIS</b> Health 2	<b>Flammability</b> 4 <b>Flammability</b> 4	

6. ACCIDENTAL RELEASE MEASURES

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Personal Precautions

Environmental Precautions

Methods for Containment

Methods for Cleaning Up

Neutralizing Agent

Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

Do not flush into surface water or sanitary sewer system.

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).

Use clean non-sparking tools to collect absorbed material. Pick up and transfer to properly labeled containers.

Not applicable.

7. HANDLING AND STORAGE

Handling

Storage

Storage Temperature

Storage Conditions

Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas.

Keep away from heat and sources of ignition.

Minimum

35 °F / 2 °C

Maximum

120 °F / 49 °C

Indoor

X

Outdoor

Heated

Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
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: 400 ppm TWA: 980 mg/m <sup>3</sup>
Butane	TWA: 1000 ppm	No data available	TWA: 800 ppm TWA: 1900 mg/m <sup>3</sup>
Propane	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup>	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup>
Polytetrafluoroethylene	No data available	No data available	No data available

Engineering Measures

Personal Protective Equipment

Eye/Face Protection

Skin Protection

Respiratory Protection

General Hygiene Considerations

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

Safety glasses with side-shields.

For prolonged or repeated contact, use protective gloves

In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Color

Appearance

Specific Gravity

Percent Volatile (Volume)

VOC Photoreactive (Y/N)

Vapor Density

Boiling Point/Range

Liquid

white

Cloudy

0.69

99.7

Yes

1.9

180 °F / 82 °C

Viscosity

Odor

pH

Evaporation Rate

VOC Content (%)

Vapor Pressure

Solubility

Slight Viscous

Rubbing alcohol

Not applicable

51.6

99.0

1301 mmHg @ 70°F

Moderately soluble

10. STABILITY AND REACTIVITY

Chemical Stability

Conditions to Avoid

Incompatible Products

Hazardous Decomposition Products

Possibility of Hazardous Reactions

Stable. Hazardous polymerization does not occur.

Keep away from open flames, hot surfaces, and sources of ignition

Strong oxidizing agents, Strong acids.

Carbon oxides, Hydrogen fluoride, Fluorinated hydrocarbons.

None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

Component Information

Acute Toxicity

Chronic Toxicity

No information available.

No information available

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Isopropyl alcohol	= 4396 mg/kg ( Rat )	= 12800 mg/kg ( Rat ) = 12870 mg/kg ( Rabbit )	= 72.6 mg/L ( Rat ) 4 h	no data available	no data available
Butane	no data available	no data available	= 658 mg/L ( Rat ) 4 h	no data available	no data available
Propane	no data available	no data available	= 658 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

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

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Carcinogenicity

There are no known carcinogenic chemicals in this product.

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

No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Isopropyl alcohol	EC50 > 1000 mg/L Desmodesmus subspicatus 72 h EC50 > 1000 mg/L Desmodesmus subspicatus 96 h	LC50 = 11130 mg/L Pimephales promelas 96 h LC50 = 9640 mg/L Pimephales promelas 96 h LC50 > 1400000 µg/L Lepomis macrochirus 96 h	EC50 = 35390 mg/L 5 min	= 13299 mg/L 48 h	0.05
Butane	no data available	no data available	no data available	no data available	2.89
Propane	no data available	no data available	no data available	no data available	2.3
Polytetrafluoroethylene	no data available	no data available	no data available	no data available	N/A

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal

Dispose of in accordance with local regulations.

Container Disposal

Warning! Container under pressure. Do not puncture. Empty remaining contents.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name

Consumer commodity

Hazard Class

ORM-D

Description

Consumer commodity ,ORM-D,

TDG

Proper shipping name

Aerosols

Hazard Class

2.1

UN-No

UN1950

Description

AEROSOLS,2.1,UN1950 LTD. QTY.

ICAO

UN-No

UN1950

Proper Shipping Name

Aerosols

Hazard Class

2.1

Shipping Description

Aerosols,UN1950 LTD. QTY.

IATA

UN-No

UN1950

Proper Shipping Name

Aerosols, flammable

Hazard Class

2.1

ERG Code

10L

Shipping Description

UN1950,Aerosols, flammable,2.1 LTD. QTY.

IMDG/IMO

Proper Shipping Name

Aerosols

Hazard Class

2.1

UN-No

UN1950

EmS No.

F-D, S-U

Shipping Description

UN1950, Aerosols,2.1 LIMITED QUANTITIES

15. REGULATORY INFORMATION

Inventories

TSCA

Complies

DSL

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	40-70	1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

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## 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
Isopropyl alcohol	Not applicable	Not applicable
Butane	Not applicable	Not applicable
Propane	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

Prepared By Mike McDowell  
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Reason for Revision No information available.  
Glossary No information available.  
List of References. No information available.

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