1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: TEL-X PLUS AEROSOL
Recommended use: Lubricant
Product Code: 5496
Chemical nature: Resins in solution
Information on Manufacturer:
CHEMSEARCH DIV. OF NCH CORP.
BOX 152170
IRVING, TX 75015

Emergency Telephone Number: CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview:
DANGER!
Extremely flammable
May cause skin irritation
Causes eye irritation
May be harmful if inhaled
May be harmful if swallowed

Color: white
Physical State: Liquid
Odor: Rubbing alcohol

Potential Health Effects:
Principle Route of Exposure: Inhalation, Skin contact, Eye contact.
Primary Routes of Entry: Inhalation
Acute Effects:
Eyes: Causes eye irritation.
Skin: May cause skin irritation.
Inhalation: 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: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic Toxicity: 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.

Target Organ Effects: Eyes, Skin, Respiratory system, Central nervous system, Liver, Kidney.
Aggravated Medical Conditions: Skin disorders, Respiratory disorders, Neurological disorders, Liver disorders, Kidney disorders.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
</tr>
<tr>
<td>Butane</td>
<td>106-97-8</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
</tr>
<tr>
<td>Polytetrafluoroethylene</td>
<td>9002-84-0</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General Advice: Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.

Eye Contact: Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.

Skin Contact: 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 reuse.

Inhalation: If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion: 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.

Notes to Physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point: 53 °F / 12 °C
Autoignition Temperature: No information available.
Flammability Limits in Air %:
- Upper: 12.7
- Lower: 1.8


Unsuitable Extinguishing Media: None known.

Specific hazards arising from the chemical: 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.

Protective Equipment and Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Aerosol Level (NFPA 308): 3
NFPA Health: 2
HMS Health: 2
Flammability: 4
Instability: 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: 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.

Environmental Precautions: Do not flush into surface water or sanitary sewer system.

Methods for Containment: 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).

Methods for Cleaning Up: Use clean non-sparking tools to collect absorbed material. Pick up and transfer to properly labeled containers.

Neutralizing Agent: Not applicable.
7. HANDLING AND STORAGE

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

Storage
Keep away from heat and sources of ignition.

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

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>TWA: 250 ppm STEL: 400 ppm</td>
<td>TWA: 600 ppm STEL: 980 ppm</td>
<td>STEL: 500 ppm STEL: 1250 mg/m³</td>
</tr>
<tr>
<td>Butane</td>
<td>TWA: 1000 ppm</td>
<td>No data available</td>
<td>TWA: 800 ppm TWA: 1900 mg/m³</td>
</tr>
<tr>
<td>Propane</td>
<td>TWA: 1000 ppm</td>
<td>TWA: 1000 ppm TWA: 1600 mg/m³</td>
<td>TWA: 1000 ppm TWA: 1800 mg/m³</td>
</tr>
<tr>
<td>Polytetrafluoroethylene</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

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
Safety glasses with side-shields.

Skin Protection
For prolonged or repeated contact, use protective gloves.

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

General Hygiene Considerations
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
Liquid

Color
White

Appearance
Cloudy

Specific Gravity
1.9

Viscosity
Moderately soluble

Odor
Rubbing alcohol

9.1 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point/Range
180 °F / 82 °C

10. STABILITY AND REACTIVITY

Chemical Stability
Stable. Hazardous polymerization does not occur.

Conditions to Avoid
Keep away from open flames, hot surfaces, and sources of ignition.

Incompatible Products
Strong oxidizing agents, Strong acids.

Hazardous Decomposition Products
Carbon oxides, Hydrogen fluoride, Fluorinated hydrocarbons.

Possibility of Hazardous Reactions
None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information
No information available.

Component Information

Acute Toxicity

<table>
<thead>
<tr>
<th>Component</th>
<th>LC50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
<th>Draize Test</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>4396 mg/kg / Rat</td>
<td>12800 mg/kg / Rat</td>
<td>37.6 mg/L / Rat</td>
<td>4 h</td>
<td>45 mg/m³ / Rat</td>
</tr>
<tr>
<td>Butane</td>
<td>no data available</td>
<td>no data available</td>
<td>658 mg/L / Rat</td>
<td>4 h</td>
<td>no data available</td>
</tr>
<tr>
<td>Propane</td>
<td>no data available</td>
<td>no data available</td>
<td>658 mg/L / Rat</td>
<td>4 h</td>
<td>no data available</td>
</tr>
<tr>
<td>Polytetrafluoroethylene</td>
<td>no data available</td>
<td>no data available</td>
<td>45 mg/m³ / Rat</td>
<td>30 min</td>
<td>no data available</td>
</tr>
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</table>

Chronic Toxicity

<table>
<thead>
<tr>
<th>Component</th>
<th>Mutagenicity</th>
<th>Sensitization</th>
<th>Developmental Toxicity</th>
<th>Reproductive Toxicity</th>
<th>Target Organ Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
<td>eyes, respiratory system, skin, liver, kidney, CNS</td>
</tr>
<tr>
<td>Butane</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
<td>CNS</td>
</tr>
<tr>
<td>Propane</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
<td>CNS</td>
</tr>
<tr>
<td>Polytetrafluoroethylene</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
</tr>
</tbody>
</table>

Carcinogenicity
There are no known carcinogenic chemicals in this product.

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
</tr>
<tr>
<td>Butane</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
</tr>
<tr>
<td>Propane</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
</tr>
<tr>
<td>Polytetrafluoroethylene</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

Product Information
No information available.

Component Information
No information available.
### Component

<table>
<thead>
<tr>
<th>Component</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Microtox</th>
<th>Water Fise</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>EC50 &gt; 1000 mg/L, Desmodesmus subspicatus 72 h</td>
<td>LC50 = 11130 mg/L, Pimephales promelas 96 h</td>
<td>EC50 = 35390 mg/L, 5 min</td>
<td>LC50 = 11329 mg/L, 48 h</td>
<td>0.05</td>
</tr>
<tr>
<td>Butane</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
<td>2.69</td>
</tr>
<tr>
<td>Polytetrafluoroethylene</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 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 Title 40n of the Code of Federal Regulations, Part 372.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>SARA 313 - Threshold Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>40-70</td>
<td>1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)</td>
</tr>
</tbody>
</table>

**SARA 311/312 Hazardous Categorization**

<table>
<thead>
<tr>
<th>Acute Health Hazard</th>
<th>Chronic Health Hazard</th>
<th>Fire Hazard</th>
<th>Sudden Release of Pressure Hazard</th>
<th>Reactive Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

**CERCLA**

<table>
<thead>
<tr>
<th>Component</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA EHS RQs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Butane</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Propane</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Polytetrafluoroethylene</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Prepared By</th>
<th>Mike McDowell</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supersedes Date</td>
<td>11/12/2008</td>
</tr>
<tr>
<td>Issuing Date</td>
<td>03/31/2011</td>
</tr>
<tr>
<td>Reason for Revision</td>
<td>No information available.</td>
</tr>
<tr>
<td>Glossary</td>
<td>No information available.</td>
</tr>
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