Safety Data Sheet: TEL-X PLUS AEROSOL

Supercedes Date 04/01/2011 **Issuing Date** 06/19/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name TEL-X PLUS AEROSOL
Product Code 5496
Recommended use Lubricant/Single Grade Hydraulic/Compressor Oil with ISO 68 Viscosity
Chemical nature Resins in solution

Information on Manufacturer
NATIONAL CHEMSEARCH
245 ORENDA RD
BRAMPTON ONT L6T 1E7

Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color White **Physical State** Liquid **Odor** Rubbing alcohol

GHS Classification

Physical Hazards

Flammable aerosols	Category 1***
Gases under pressure	Compressed Gas***

Health Hazard

Acute Inhalation Toxicity - Gas	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 3
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ systemic toxicity (single exposure)	Category 3
Specific target organ systemic toxicity (repeated exposure)	Category 2

Other hazards
None

Labeling
Signal Word
DANGER

Hazard Statements
H222 - Extremely flammable aerosol
H331 - Toxic if inhaled
H336 - May cause drowsiness or dizziness
H319 - Causes serious eye irritation
H373 - May cause damage to organs through prolonged or repeated exposure
H280 - Contains gas under pressure; may explode if heated

Precautionary Statements
P210 - Keep away from heat, sparks, open flames or hot surfaces.
P211 - Do not spray on an open flame or other ignition source
P251 - Pressurized container: Do not pierce or burn, even after use
P280 - Wear protective gloves, protective clothing and eye protection.
P270 - Do not eat, drink or smoke when using this product
P260 - Do not breathe vapor, mist or gas
P271 - Use in a well-ventilated area.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P312 - Call a physician if unwell.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists, get medical attention.
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P501 - Dispose of contents and container in accordance with applicable local regulations.***

2 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Isopropyl alcohol	67-63-0	40-70
Butane	106-97-8	15-40
Propane	74-98-6	7-13
Polytetrafluoroethylene	9002-84-0	1-5

***

4. FIRST AID MEASURES

General advice Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist, or gas.

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 re-use.

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 *** 54 °F*** / *** 12*** °C*** **Method** Seta closed cup

Flammability Limits in Air %: Propellant. **Upper** 12.7 **Lower** 1.8

Suitable Extinguishing Media

Foam. Alcohol-resistant foam. Dry chemical. Water spray. Carbon dioxide (CO2). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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 inch / 0 cm.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear.

Aerosol Level (NFPA 30B) - 3

NFPA	**Health** 2	**Flammability** 4	**Instability** 0
HMIS	**Health** 2	**Flammability** 4	**Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Take precautionary measures against static discharges. Remove all sources of ignition. 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** *** 36 °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
Isopropyl alcohol	TWA: 200 ppm STEL: 400 ppm***	TWA: 400 ppm TWA: 980 mg/m^3***	2000 ppm STEL 500 ppm

			STEL 1225 mg/m^3 TWA: 400 ppm TWA: 980 mg/m^3***
Butane	STEL: 1000 ppm***	No data available	TWA: 800 ppm TWA: 1900 mg/m^3***
Propane	TWA: 1000 ppm***	TWA: 1000 ppm TWA: 1800 mg/m^3***	2100 ppm TWA: 1000 ppm TWA: 1800 mg/m^3***

Engineering Measures Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Personal Protective Equipment

Eye/Face Protection Safety glasses with side-shields.

Skin Protection For prolonged or repeated contact, use protective gloves with appropriate chemical resistance.

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 Wear protective gloves/clothing. 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	**Viscosity**	Slight viscous
Color	White	**Odor**	Rubbing alcohol
Odor Threshold	Not applicable	**Appearance**	Hazy
pH	Not applicable	**Specific Gravity**	0.69
Evaporation Rate	51.6 (BuAc = 1)	**Percent Volatile (Volume)**	0
VOC Content (%)	99.0	**VOC Photoreactive (Y/N)**	Yes
VOC Content (g/L)	0	**Vapor Pressure**	1301 mmHg @ 70°F
Vapor Density	1.9 (air = 1)	**Solubility**	Moderately soluble
n-Octanol/Water Partition	No data available	**Melting Point/Range**	No data available
Decomposition Temperature	No data available	**Boiling Point/Range**	*** 180 °F*** / *** 82*** °C***
Flammability (solid, gas)	No data available		
Flash Point	*** 54 °F*** / *** 12*** °C***	**Method**	Seta closed cup
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	Propellant	**Upper** 12.7 **Lower** 1.8	

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, Aluminium.

Decomposition Temperature No data available

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.

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

Oral LD50 No information available

Dermal LD50 No information available

Inhalation LC50

Gas No information available

Mist No information available

Vapor No information available

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.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Isopropyl alcohol	= 1870 mg/kg (Rat)***	= 4059 mg/kg (Rabbit)***	= 72600 mg/m^3 (Rat) 4 h***	no data available	no data available
Butane			= 658 g/m^3 (Rat) 4 h***	no data available	no data available
Propane			= 658 mg/L (Rat) 4 h	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	eyes, respiratory system, skin, liver, kidney, CNS
Butane	no data available		no data available	no data available	CNS, heart
Propane	no data available		no data available	no data available	CNS, heart

Carcinogenicity There are no known carcinogenic chemicals in this product.

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: 48 h Daphnia magna mg/L EC50 ***	0.05***
Butane	No information available	No information available	No information available	No information available	2.89***
Propane	No information available	No information available	No information available	No information available	2.3***

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 Contents under pressure. Do not puncture. Empty containers should be taken for local recycling, recovery, or waste disposal. 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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 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***

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

16. OTHER INFORMATION

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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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