Odor Alcoholic

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name DRI-LUBE PLUS AEROSOL

Recommended Use Lubricant

Information on Manufacturer

CERTIFIED LABS, DIV. OF NCH CORP.

BOX 152170

IRVING, TEXAS 75015

Product Code Chemical Nature Alcoholic solution **Emergency Telephone Number** CHEMTREC ® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview Danger

Extremely flammable May be harmful if inhaled May cause skin irritation Causes eye irritation Harmful or fatal if swallowed

Contents under pressure

Physical State Liquid

Color Dark gray Potential Health Effects Principle Route of Exposure

Primary Routes of Entry

Acute Effects

Eves

Chronic Effects

Skin Inhalation

Ingestion

Target Organ Effects

Aggravated Medical Conditions Potential Environmental Effects Inhalation, Skin contact, Eye contact.

Inhalation, Skin Absorption.

Causes eve irritation.

May cause skin irritation. The product may be absorbed through the skin. Repeated exposure may cause skin dryness or cracking. May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. May cause headache and dizziness. Ingestion may cause irritation to mucous membranes. Causes headache, drowsiness or other effects to the central nervous system.

Aspiration hazard if swallowed - can enter lungs and cause damage.

Ingestion may cause lowering of blood pressure. Liver and kidney injuries may occur.

Blood, Central nervous system, Heart, Liver, Lungs, and Kidneys., Skin, Eyes.

Blood disorders. Cardiovascular. Kidney disorders. Skin disorders. Respiratory disorders. Neurological disorders.

See Section 12 for additional Ecological information

3. COMPOSITION / INFORMATION ON INGREDIENTS	
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Component	CAS-No
Butane	106-97-8
Molybdenum disulfide	1317-33-5
Petroleum naphtha, light aromatic	64742-95-6
Isopropyl alcohol	67-63-0
Propane	74-98-6
Ethylcellulose	9004-57-3
Pseudocumene	95-63-6

4. FIRST AID MEASURES

General Advice

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

Eye Contact Skin Contact

Notes to Physician

Inhalation

Ingestion

NFPA

HMIS

Personal Precautions

Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists. Wash off immediately with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation

develops and persists.

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 immediately. Never give anything by mouth to an

Seta closed cup

unconscious person.

Aspiration hazard if swallowed - can enter lungs and cause damage.

5. FIRE-FIGHTING MEASURES

Method

Flash Point 47°F / 8°C

Autoignition Temperature No information available

Flammability Limits in Air Mixture Upper 12.7 Lower 0.9 Suitable Extinguishing Media

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

Specific Hazards Arising from the Chemical

Solvent vapors are heavier than air and may spread along floors . Vapors may ignite and explode. Flame extension: >36 inches / >91.4 cm and Burnback: 6 inches / 15 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.

4 0 Health 2 Flammability Instability Health 2 Flammability 4 Instability 0

6. ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition. Ensure adequate ventilation. Use personal protective equipment. 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.

120°F / 49°C

Methods for Containment Methods for Cleaning Up

Neutralizing Agent

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)

Pick up and transfer to properly labelled containers.

Not applicable

7. HANDLING AND STORAGE

Handling Storage

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

Maximum

Keep away from heat and sources of ignition.

35°F / 2°C Minimum

Storage Conditions Indoor Χ Outdoor Heated Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Storage Temperature

Lxposure Guidennes						
Component	ACGIH TLV	OSHA PEL	NIOSH			
Butane	TWA: 1000 ppm	no data available	TWA: 1900 mg/m ³			
			TWA: 800 ppm			
Molybdenum disulfide	TWA: 0.5 mg/m ³	TWA: 15 mg/m ³	IDLH: 1000 mg/m ³			
	TWA: 10 mg/m ³	TWA: 5 mg/m ³				
	TWA: 3 mg/m ³					
Petroleum naphtha, light aromatic	No data available	no data available	no data available			
Isopropyl alcohol	TWA: 200 ppm	TWA: 400 ppm	IDLH: 2000 ppm			
	STEL: 400 ppm	TWA: 980 mg/m ³	STEL 500 ppm			
			STEL 1225 mg/m ³			
			TWA: 980 mg/m ³			
			TWA: 400 ppm			
Propane	TWA: 1000 ppm	TWA: 1000 ppm	IDLH: 2100 ppm			
		TWA: 1800 mg/m ³	TWA: 1800 mg/m ³			
			TWA: 1000 ppm			
Ethylcellulose	No data available	no data available	no data available			
Pseudocumene	TWA: 25 ppm	no data available	TWA: 125 mg/m ³			
			TWA: 25 ppm			

Engineering Measures

Personal Protective Equipment Eye/Face Protection

Skin Protection

Respiratory Protection

General Hygiene Considerations

Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Safety glasses with side-shields.

Impervious gloves.

Use NIOSH approved respiratory protection.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid Color Dark gray Appearance Opaque Specific Gravity 0.817 Evaporation Rate 52.2 (Butyl acetate=1) VOC Content (%) 100

Vapor Density 1.9 Boiling Point/Range 180°F / 82°C

Slightly Viscous Viscosity Odor Alcoholic рΗ Not applicable **Bulk Density** 6.81

Percent Volatile (Volume) 100 Vapor Pressure

1302 mmHg @ 70 °F Solubility Dispersible

10. STABILITY AND REACTIVITY

Chemical Stability Conditions to Avoid Incompatible Products Hazardous Decomposition Products Possibility of Hazardous Reactions

Stable. Hazardous polymerization does not occur .

Heat, flames, and sparks.

Bases. Acids. Strong oxidizing agents. Halogenated hydrocarbon. Aldehydes. Ketones.

Nitrogen oxides (NOx). Carbon oxides. Sulfur oxides .

None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information No information available

Component Information

Acute toxicity

Component	LD50 Orai	LD50 Dermai	LC50 Innalation	Draize Test	Otner
Butane	no data available	no data available	658 g/m ³ (Rat) 4 h	no data available	no data available
Molybdenum disulfide	no data available	no data available	2820 mg/m ³ (Rat) 4 h	no data available	no data available
Petroleum naphtha, light aromatic	8400 mg/kg (Rat)	2000 mg/kg (Rabbit)	3400 ppm (Rat) 4 h 5.2 mg/L (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
Propane	no data available	658 mg/kg (Rat)	no data available	no data available	no data available
Ethylcellulose	5 g/kg (Rat)	5 g/kg (Rabbit)	no data available	no data available	no data available
Pseudocumene	3400 mg/kg (Rat)	3160 mg/kg (Rabbit)	18 g/m ³ (Rat) 4 h	no data available	no data available

Chronic Toxicity

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Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Butane	no data available	no data available	no data available	no data available	CNS, liver, heart
Molybdenum disulfide	no data available	no data available	no data available	no data available	respiratory system kidneys eyes

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					blood, bones, joints
Petroleum naphtha, light aromatic	no data available				
Isopropyl alcohol	no data available	no data available	no data available	no data available	eyes, skin, respiratory system
Propane	no data available	no data available	no data available	no data available	CNS, liver, heart
Ethylcellulose	no data available				
Pseudocumene	no data available	no data available	no data available	no data available	eyes, skin, respiratory system, CNS,
					blood

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
Butane	not applicable				
Molybdenum disulfide	A3	not applicable	not applicable	not applicable	not applicable
Petroleum naphtha, light aromatic	not applicable				
Isopropyl alcohol	not applicable				
Propane	not applicable				
Ethylcellulose	not applicable				
Pseudocumene	not applicable				

12. ECOLOGICAL INFORMATION

Product Information

No information available

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
Molybdenum disulfide	no data available	no data available	no data available	no data available	N/A
Petroleum naphtha, light aromatic	no data available	LC50= 9.22 mg/L Oncorhynchus mykiss 96 h	no data available	EC50 = 6.14 mg/L 48 h	N/A
Isopropyl alcohol	EC50> 1000 mg/L Scenedesmus subspicatus 72 h EC50> 1000 mg/L Scenedesmus subspicatus 96 h	LC50= 61200 mg/L Pimephales promelas 96 h LC50= 94900 mg/L Pimephales promelas 96 h LC50= 9640 mg/L Pimephales promelas 96 h	EC50 = 35390 mg/L 5 min	EC50 = 13299 mg/L 48 h	0.05
Propane	no data available	no data available	no data available	no data available	2.3
Ethylcellulose	no data available	no data available	no data available	no data available	N/A
Pseudocumene	no data available	LC50= 7.72 mg/L Pimephales promelas 96 h	no data available	EC50 = 6.14 mg/L 48 h	3.63

Persistence and Degradability

Bioaccumulation Mobility No information available No information available No information available

13. DISPOSAL CONSIDERATIONS

Product Disposal Container Disposal Dispose of as hazardous waste in compliance with local and national regulations

Contents under pressure Do not puncture. Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

DOT DOT

Proper Shipping Name Consumer commodity

Hazard Class ORM-D

 $\begin{tabular}{ll} \textbf{Description} & \textbf{Consumer commodity ,ORM-D,} \end{tabular}$

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 2.1 LTD. QTY.

IATA

UN-No UN1950

Proper Shipping Name Aerosols, flammable

Hazard Class2.1ERG Code10L

Shipping Description UN1950,Aerosols, flammable,2.1 LTD. QTY.

IMDG/IMO

 Proper Shipping Name
 Aerosols

 Hazard Class
 2

 UN-No
 UN1950

 EmS No.
 F-D, S-U

Shipping Description UN1950, Aerosols,2.1 LTD QTY.

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 and Title 40n of the Code of Federal Regulations, Part 372:

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Isopropyl alcohol	67-63-0	55-60	1.0
Pseudocumene	95-63-6	1-5	1.0

SARA 311/312 Hazardous Categorization

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

CERCLA		
Component	Hazardous Substances RQs	CERCLA EHS RQs
Butane	Not applicable	Not applicable
Molybdenum disulfide	Not applicable	Not applicable
Petroleum naphtha, light aromatic	Not applicable	Not applicable
Isopropyl alcohol	Not applicable	Not applicable
Propane	Not applicable	Not applicable
Ethylcellulose	Not applicable	Not applicable
Pseudocumene	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 Supercedes Date Issuing Date Reason for Revision Glossary

List of References

Mike McDowell 08/04/2005 07/25/2008 No information

No information available No information available No information available

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