Safety Data Sheet: DRI-LUBE PLUS SP

Supercedes Date 09/09/2009 **Issuing Date** 06/09/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name DRI-LUBE PLUS SP
Recommended use Lubricant
Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code 0710
Chemical nature Alcoholic solution
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Black **Physical state** liquid **Odor** Cherry

GHS Classification

Physical Hazards

Flammable liquids	Category 2

Health Hazard

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

Other hazards
None

Labeling
Signal Word
DANGER

Hazard statements
H225 - Highly flammable liquid and vapor
H336 - May cause drowsiness or dizziness
H332 - Harmful if inhaled
H320 - Causes eye irritation
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary Statements
P210 - Keep away from heat, sparks, open flames or hot surfaces.
P240 - Ground/bond container and receiving equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P241 - Use explosion-proof electrical, ventilating and lighting equipment
P271 - Use in a well-ventilated area.
P260 - Do not breathe vapor, mist or gas.
P280 - Wear protective gloves, protective clothing and eye protection.
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
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.
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.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P235 - Keep cool
P501 - Dispose of contents and container in accordance with applicable local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %
Isopropyl alcohol	67-63-0	60-100
Molybdenum disulfide	1317-33-5	3-7
Pseudocumene	95-63-6	1-5
Petroleum naphtha, light aromatic	64742-95-6	1-5
1,3,5-Trimethylbenzene	108-67-8	0.1-1
Xylenes (o-, m-, p- isomers)	1330-20-7	0.1-1

4. FIRST AID MEASURES

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

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 immediately. Never give anything by mouth to an unconscious person.

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point 51 °F / 11 °C **Method** Seta closed cup

Flammability Limits in Air %: Mixture. **Upper:** 12.7 **Lower:** 0.9

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO2). Alcohol-resistant foam. Dry chemical.

Specific hazards arising from the chemical

Flammable. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions.

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.

NFPA **Health** 2 **Flammability** 3 **Instability** 0

HMIS **Health** 2 **Flammability** 3 **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 breathing vapors, mist or gas. Avoid contact with skin, eyes and clothing.

Storage Keep away from heat and sources of ignition. Store in original container. Keep in a dry, cool and well-ventilated place.

Storage Temperature **Minimum** 0 °F / -18 °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
Molybdenum disulfide	TWA: 10 mg/m^3 inhalable fraction TWA: 3 mg/m^3 respirable fraction	TWA: 15 mg/m^3 total dust	No data available
Pseudocumene	TWA: 25 ppm	No data available	TWA: 25 ppm TWA: 125 mg/m^3
1,3,5-Trimethylbenzene	TWA: 25 ppm	No data available	TWA: 25 ppm TWA: 125 mg/m^3
Xylenes (o-, m-, p- isomers)	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm TWA: 435 mg/m^3	No data available

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 Wear suitable protective clothing.

Respiratory Protection In case of inadequate ventilation wear respiratory protection. 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	**Viscosity**	Non viscous
Color	Black	**Odor**	Cherry
Odor Threshold	Not applicable	**Appearance**	Translucent
pH	Not applicable	**Specific Gravity**	0.88
Evaporation Rate	1.46 (Butyl acetate=1)	**Percent Volatile (Volume)**	100
VOC Content (%)	100	**VOC Content (g/L)**	880
Vapor Pressure	No information available	**Vapor Density**	No data available
Solubility	Moderately soluble	**n-Octanol/Water Partition**	No data available
Melting Point/Range	No data available	**Decomposition Temperature**	No data available
Boiling Point/Range	190.4 °F / 88 °C	**Flammability (solid, gas)**	No data available
Flash Point	51 °F / 11 °C	**Method**	Seta closed cup
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	Mixture	**Upper:** 12.7 **Lower:** 0.9	

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.
Decomposition Temperature	No data available
Hazardous Decomposition Products	Carbon oxides, Sulfur oxides.
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

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, Skin Absorption.

Acute Effects:

Eyes Causes eye irritation.

Skin May cause skin irritation. Repeated exposure may cause skin dryness or cracking.

Inhalation Harmful by inhalation. 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.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Toxicity Repeated and prolonged exposure to solvents may cause brain and nervous system damage. Liver and kidney injuries may occur.

Target Organ Effects Central nervous system, Respiratory system, Liver, Blood, Heart, Kidney, Ears, Skin, Peripheral Nervous System (PNS).

Aggravated Medical Conditions Neurological disorders, Respiratory disorders, Heart disease, Kidney disorders, Liver disorders, Skin disorders, Blood disorders.

Component Information

Acute Toxicity

Component	Oral LD50	Dermal LD50	Inhalation LC50	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
Molybdenum disulfide	no data available	no data available	> 2820 mg/m^3 (Rat) 4 h	no data available	no data available
Pseudocumene	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m^3 (Rat) 4 h	no data available	no data available
Petroleum naphtha, light aromatic	no data available	> 2000 mg/kg (Rabbit)	= 3400 ppm (Rat) 4 h	no data available	no data available
1,3,5-Trimethylbenzene	no data available	no data available	= 24 g/m^3 (Rat) 4 h	no data available	no data available
Xylenes (o-, m-, p- isomers)	= 4300 mg/kg (Rat)	> 1700 mg/kg (Rabbit)	= 29.08 mg/L (Rat) 4 h > 5.04 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	no data available	eyes, respiratory system, skin, liver, kidney, CNS
Pseudocumene	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, skin, blood, ears, heart
Petroleum naphtha, light aromatic	no data available	no data available	no data available	no data available	CNS
1,3,5-Trimethylbenzene	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, skin, blood, ears, heart
Xylenes (o-, m-, p- isomers)	no data available	no data available	yes	no data available	heart, lung, CNS, PNS, respiratory system, ears, liver, kidney

Carcinogenicity

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	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
Pseudocumene	No information available.	LC50 7.19 - 8.28 mg/L Pimephales promelas 96 h LC50 = 7.72 mg/L Pimephales promelas 96 h	No information available	6.14: 48 h Daphnia magna mg/L EC50	3.63
Petroleum naphtha, light aromatic	No information available.	LC50 = 9.22 mg/L Oncorhynchus mykiss 96 h	No information available	6.14: 48 h Daphnia magna mg/L EC50	N/A
1,3,5-Trimethylbenzene	No information available.	LC50 = 3.48 mg/L Pimephales promelas 96 h LC50 = 7.72 mg/L Pimephales promelas 96 h	No information available	No information available.	N/A
Xylenes (o-, m-, p- isomers)	EC50 = 11 mg/L Pseudokirchneriella subcapitata 72 h	LC50 13.1 - 16.5 mg/L Lepomis macrochirus 96 h LC50 13.5 - 17.3 mg/L Oncorhynchus mykiss 96 h LC50 2.661 - 4.093 mg/L Oncorhynchus mykiss 96 h LC50 23.53 - 29.97 mg/L Pimephales promelas 96 h LC50 30.26 - 40.75 mg/L Poecilia reticulata 96 h LC50 7.711 - 9.591 mg/L Lepomis macrochirus 96 h LC50 = 13.4 mg/L Pimephales promelas 96 h LC50 = 19 mg/L Lepomis macrochirus 96 h	EC50 = 0.0084 mg/L 24 h	3.82: 48 h water flea mg/L EC50 0.6: 48 h Gammarus lacustris mg/L LC50	3.15

		LC50 = 780 mg/L Cyprinus carpio 96 h LC50 > 780 mg/L Cyprinus carpio 96 h			

Persistence and Degradability No information available.
Bioaccumulation No information available.
Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of contents/container in accordance with local regulation.
Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT
- **Proper Shipping Name** FLAMMABLE LIQUIDS, N.O.S.,
- **Hazard Class** 3
- **UN-No** UN1993
- **Packing Group** II
- **Description** UN1993, FLAMMABLE LIQUIDS, N.O.S., (ISOPROPYL ALCOHOL), 3, PG II

TDG
- **Proper shipping name** FLAMMABLE LIQUIDS, N.O.S.,
- **Hazard Class** 3
- **UN-No** UN1993
- **Packing Group** II
- **Description** UN1993, FLAMMABLE LIQUIDS, N.O.S., (ISOPROPYL ALCOHOL), 3, PG II

ICAO
- **UN-No** UN1993
- **Proper Shipping Name** FLAMMABLE LIQUIDS, N.O.S.,
- **Hazard Class** 3
- **Packing Group** II
- **Shipping Description** UN1993, FLAMMABLE LIQUIDS, N.O.S., (ISOPROPYL ALCOHOL), 3, PG II

IATA
- **UN-No** UN1993
- **Proper Shipping Name** FLAMMABLE LIQUIDS, N.O.S.,
- **Hazard Class** 3
- **Packing Group** II
- **Shipping Description** UN1993, FLAMMABLE LIQUIDS, N.O.S., (ISOPROPYL ALCOHOL), 3, PG II

IMDG/IMO
- **Proper Shipping Name** FLAMMABLE LIQUIDS, N.O.S.,
- **Hazard Class** 3
- **UN-No** UN1993
- **Packing Group** II
- **Description** UN1993, FLAMMABLE LIQUIDS, N.O.S., (ISOPROPYL ALCOHOL), 3, PG II

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	60-100	1.0
Pseudocumene	95-63-6	1-5	1.0
Xylenes (o-, m-, p- isomers)	1330-20-7	0.1-1	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	No	No

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Xylenes (o-, m-, p- isomers)	100 lb	Not applicable

16. OTHER INFORMATION

Prepared By Adrienne McKee
Supercedes Date 09/09/2009
Issuing Date 06/09/2015
Reason for Revision No information available.
Glossary No information available.
List of References. No information available.

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