



## Safety Data Sheet    DRI LUBE PLUS AEROSOL

Supersedes Date MARCH 2019

Issuing Date JUNE 2020

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** DRI LUBE PLUS AEROSOL

**Recommended use** Lubricant

**Manufacturer, importer, supplier**

NCH AUSTRALIA PTY LTD, DIVISION OF NCH CORP.  
N2, 391, PARK ROAD, REGENTS PARK, NSW 2143

**Telephone inquiry**

+61-2-96690260

**Emergency Telephone Number**

+61-2-96690237/0401718972

**Fax number**

+61-2-96931562

**Product Code** 5575

**Chemical nature** Alcoholic solution

**Distributor**

NCH AUSTRALIA PTY LTD  
N2, 391, PARK ROAD, REGENTS PARK, NSW 2143

**Telephone inquiry**

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## 2. HAZARD IDENTIFICATION

**Colour**    Black

**Physical state**    Liquid

**Odour**    Solvent

**Mixture or Pure Substance:**    Mixture

### GHS

#### Classification

##### Physical Hazards

Flammable Aerosols

Category 2

Gases under pressure

Category 1

Liquefied gas

##### Health Hazard

Skin Corrosion/Irritation

Category 2

Serious Eye Damage/Eye Irritation

Category 2A

Germ cell mutagenicity

Category 1B

Reproductive Toxicity

Category 1A

Carcinogenicity

Category 1A

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

H222 - Extremely flammable aerosol  
 H280 - Contains gas under pressure; may explode if heated  
 H336 - May cause drowsiness or dizziness  
 H315 - Causes skin irritation  
 H319 - Causes serious eye irritation  
 H373 - May cause damage to organs through prolonged or repeated exposure  
 H341 - Suspected of causing genetic defects  
 H350 - May cause cancer  
 H360 - May damage fertility or the unborn child  
 H304 - May be fatal if swallowed and enters airways

##### Precautionary

##### Statements

P201 - Obtain special instructions before use  
 P202 - Do not handle until all safety precautions have been read and understood  
 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  
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
 P271 - Use in a well-ventilated area.  
 P280 - Wear protective gloves, protective clothing and eye protection.  
 P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.  
 P308 + P313 - IF exposed or concerned, get medical attention  
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor  
 P331 - DO NOT induce vomiting  
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
 P332 + P313 - If skin irritation occurs, get medical attention.  
 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.  
 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.  
 P405 - Store locked up  
 P501 - Dispose of contents and container in accordance with applicable local regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Weight-%
Acetone	67-64-1	30-60
Petroleum gases, liquified, sweetened	68476-86-8	15-40
Isopropyl alcohol	67-63-0	10-30
Toluene	108-88-3	5-10
Molybdenum disulfide	1317-33-5	5
Dipropylene glycol mono methyl ether	34590-94-8	3-7

### 4. FIRST AID MEASURES

<b>General advice</b>	Avoid breathing vapors, mist, or gas. Avoid contact with skin, eyes and clothing.
<b>Eye Contact</b>	Immediately rinse the eyes with water. Remove any contact lenses and continue flushing for at least 15 minutes. Hold the eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Get immediate medical attention.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.
<b>Inhalation</b>	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately.
<b>Notes to physician</b>	Never give anything by mouth to an unconscious person. Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

<b>Flash Point</b>	No data available	<b>Method</b>	No data available
<b>Autoignition Temperature</b>	No information available.		
<b>Flammability Limits in Air %:</b>	Mixture.	<b>Upper:</b>	12.8
<b>Suitable Extinguishing Media</b>		<b>Lower:</b>	1.1
Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical.			
<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: >35 inches / >90 cm and Burnback: 6 inch / 15 cm.			
<b>Protective Equipment and Precautions for Firefighters</b>			
As in any fire, wear self-contained breathing apparatus pressure-demand, Safe Work, Australia (approved or equivalent) and full protective gear.			

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	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.
<b>Environmental precautions</b>	Do not flush into surface water or sanitary sewer system.
<b>Methods for Containment</b>	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).
<b>Methods for Cleaning Up</b>	Use clean non-sparking tools to collect absorbed material. Pick up and transfer to properly labeled containers.
<b>Neutralizing Agent</b>	Not applicable.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Keep away from open flames, hot surfaces and sources of ignition Avoid breathing vapors, mist or gas Avoid contact with skin, eyes and clothing Keep away from heat and sources of ignition			
<b>Storage</b>	<b>Minimum</b>	2 °C	<b>Maximum</b>	49 °C
<b>Storage Temperature</b>	<b>Indoor</b>	X	<b>Outdoor</b>	
<b>Storage Conditions</b>			<b>Heated</b>	<b>Refrigerated</b>

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ES-TWA	ISHL	ACGIH TLV	Acetone	STEL: 1000 ppm STEL: 2375 mg/m <sup>3</sup> TWA: 500 ppm TWA: 1185 mg/m <sup>3</sup>	ACL: 500 ppm	TWA: 250 ppm STEL: 500 ppm
Isopropyl alcohol	STEL: 500 ppm STEL: 1230 mg/m <sup>3</sup> TWA: 400 ppm TWA: 983 mg/m <sup>3</sup>	ACL: 200 ppm	TWA: 200 ppm STEL: 400 ppm	Toluene	skin notation STEL: 150 ppm STEL: 574 mg/m <sup>3</sup> TWA: 50 ppm TWA: 191 mg/m <sup>3</sup>	ACL: 20 ppm	TWA: 20 ppm
Molybdenum disulfide	TWA: 10 mg/m <sup>3</sup>	No data available	TWA: 10 mg/m <sup>3</sup> inhalable fraction TWA: 3 mg/m <sup>3</sup> respirable fraction	Dipropylene glycol mono methyl ether	skin notation TWA: 50 ppm TWA: 308 mg/m <sup>3</sup>	No data available	TWA: 100 ppm Skin STEL: 150 ppm

**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

#### 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

#### Eye/Face Protection

Safety glasses with side-shields.

#### Hand Protection

Protective gloves

#### Skin Protection

Wear suitable protective clothing, Impervious gloves.

### 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

<b>Appearance</b>	Opaque
<b>Color</b>	Black
<b>Physical state</b>	Liquid
<b>Odor</b>	Solvent
<b>Odor Threshold</b>	No data available
<b>pH</b>	Not applicable
<b>Melting Point/Range</b>	No data available
<b>Freezing Point</b>	No information available
<b>Boiling Point/Range</b>	No information available.
<b>Flash Point</b>	No data available
<b>Method</b>	No data available
<b>Evaporation Rate</b>	>1 (Butyl acetate=1)
<b>Vapor Pressure</b>	77.3 mmHg @ 21°C
<b>Solubility</b>	Dispersible
<b>Vapor Density</b>	>2 (Air = 1.0)

Specific Gravity	0.830
Autoignition Temperature	No information available.
Viscosity	Non viscous
Molecular Weight	No data available
Percent Volatile (Volume)	95
VOC Content (%)	43
VOC Content (g/L)	356.9

## 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	Nitric acid, Oxidizing agents, Alkalis, Chlorine, Acids, Rubber products.
Hazardous Decomposition Products	Carbon oxides.
Possibility of Hazardous Reactions	None under normal processing.

## 11. TOXICOLOGICAL INFORMATION

Product Information	
Principle Route of Exposure	Inhalation, Skin contact, Eye contact.

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50	4,542.61 mg/kg
Dermal LD50	10,926.28 mg/kg
Inhalation LC50	No information available

Gas	Not applicable mg/L
Mist	51.57 mg/L
Vapor	91.98 mg/L
Primary Routes of Entry	Skin contact, Skin Absorption.

### Main Symptoms

### Acute Effects:

Eyes	Causes eye irritation.
Skin	Causes 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.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Causes headache, drowsiness or other effects to the central nervous system.

### Chronic Effects:

### Target Organ Effects:

### Aggravated Medical Conditions

Liver and kidney injuries may occur, Contains a known or suspected reproductive toxin. Respiratory system, Central nervous system, Liver, Kidney, Skin, Eyes. Respiratory disorders, Skin disorders, Liver disorders, Kidney disorders, Neurological disorders.

### Component Information

### Acute Toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Acetone	No information available	Not applicable	= 50100 mg/m <sup>3</sup> ( Rat ) 8 h	No data available	No data available
Isopropyl alcohol	= 1870 mg/kg ( Rat )	= 4059 mg/kg ( Rabbit )	= 72600 mg/m <sup>3</sup> ( Rat ) 4 h	No data available	No data available
Toluene	636 mg/kg ( Rat )	8390 mg/kg ( Rabbit ); 12124 mg/kg ( Rat )	12.5 mg/L/4h ( Rat ); > 26700 ppm ( Rat ) 1h	No data available	No data available
Molybdenum disulfide	No information available	Not applicable	> 2820 mg/m <sup>3</sup> ( Rat ) 4 h	No data available	No data available
Dipropylene glycol mono methyl ether	= 5230 mg/kg ( Rat )	= 9500 mg/kg ( Rabbit )	No information available	No data available	No data available

**Chronic Toxicity:**

Chemical Name	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Acetone	No data available	Not applicable	No data available	No data available.	Skin Central nervous system Eyes Respiratory system
Isopropyl alcohol	No data available	No data available	No data available	No data available.	Skin Eyes Respiratory system
Toluene	No data available	Not applicable	yes	X	Skin Central nervous system Eyes Respiratory system Liver Kidney
Dipropylene glycol mono methyl ether	No data available	Not applicable	No data available	No data available.	Central nervous system Eyes Respiratory system

**Carcinogenicity --**

Petroleum gases, liquified, sweetened --- Category 1A --- May cause cancer.

**12. ECOLOGICAL INFORMATION****Product Information**

No data available

**Component Information**

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficient
Acetone	Not applicable	LC50 4.74 - 6.33 mL/L Oncorhynchus mykiss 96 h LC50 6210 - 8120 mg/L Pimephales promelas 96 h LC50 = 8300 mg/L Lepomis macrochirus 96 h	EC50 = 14500 mg/L 15 min	10294 - 17704: 48 h Daphnia magna mg/L EC50 Static 12600 - 12700: 48 h Daphnia magna mg/L EC50	-0.24
Petroleum gases, liquified, sweetened	Not applicable	Oral	No data available	Not applicable	2.8
Isopropyl alcohol	EC50 > 1000 mg/L Desmodesmus subspicatus 96 h EC50 > 1000 mg/L Desmodesmus subspicatus 72 h	LC50 = 9640 mg/L Pimephales promelas 96 h LC50 = 11130 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
Toluene	EC50 > 433 mg/L Pseudokirchneriella subcapitata 96 h EC50 = 12.5 mg/L Pseudokirchneriella subcapitata 72 h	LC50 15.22 - 19.05 mg/L Pimephales promelas 96 h LC50 = 12.6 mg/L Pimephales promelas 96 h LC50 5.89 - 7.81 mg/L Oncorhynchus mykiss 96 h LC50 14.1 - 17.16 mg/L Oncorhynchus mykiss 96 h LC50 = 5.8 mg/L Oncorhynchus mykiss 96 h LC50 11.0 - 15.0 mg/L Lepomis macrochirus 96 h LC50 = 54 mg/L Oryzias latipes 96 h LC50 = 28.2 mg/L Poecilia reticulata 96 h LC50 50.87 - 70.34 mg/L Poecilia reticulata 96 h	EC50 = 19.7 mg/L 30 min	5.46 - 9.83: 48 h Daphnia magna mg/L EC50 Static 11.5: 48 h Daphnia magna mg/L EC50	2.65
Dipropylene glycol mono methyl ether	Not applicable	LC50 > 10000 mg/L Pimephales promelas 96 h	No data available	1919: 48 h Daphnia magna mg/L LC50	-0.064

**Ecotoxicity effects**

No information available

**Persistence and Degradability**

No information available

**Bioaccumulation**

No information available

**Mobility**

No information available

**13. DISPOSAL CONSIDERATIONS****Product Disposal  
Container Disposal**

Dispose of in accordance with local regulations.  
Contents under pressure. Do not puncture. Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.

**14. TRANSPORT INFORMATION****ADG 7**

UN Number	UN1950
UN proper shipping name	Aerosols
Hazard Class	2.1
Hazard Code	2YE
Description	UN1950, Aerosols, 2.1 LTD QTY.

**15. REGULATORY INFORMATION****Australia****Poison Schedule** None

Chemical Name		Toluene	Listed
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**16. OTHER INFORMATION**

Prepared By	Arvind Rane
Super cedes Date	MARCH 2019
Issuing Date	JUNE 2020
Reason for Revision	Revised formula
List of References.	No information available.

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