Safety Data Sheet LUBREASE CLEAR

Supersedes Date Initial Release **Issuing Date** DEC 2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name LUBREASE CLEAR AEROSOL
Product Code 5418
Recommended use Lubricant
Chemical nature Hydrocarbons Mixture (aerosol)

Manufacturer, importer, supplier
NCH AUSTRALIA PTY LTD, DIV. OF NCH CORPORATION
5-9,Ralph Street , Alexandria , NSW -2015
Telephone inquiry
+61-2-96690260
Emergency Telephone Number
+61-2-96690237 / 0401718972
Fax number
+61-2-96931562

Distributor
NCH AUSTRALIA PTY LTD
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2. HAZARD IDENTIFICATION

Colour Amber - Brown **Physical state** liquid **Odour** Petroleum distillates

Mixture or Pure Substance: Mixture

GHS Classification

Physical Hazards

Flammable Aerosols	Category 2
Gases under pressure	Compressed Gas

Health Hazard

Aspiration Toxicity	Category 1
Acute Inhalation Toxicity - Gas	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2B
Specific target organ systemic toxicity (single exposure)	Category 3

Other Hazards

None

Labelling

Signal Word **Danger**

Hazard Statements

H223 - Flammable aerosol
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H280 - Contains gas under pressure; may explode if heated

Precautionary Statements

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
P261 -Avoid breathing dust/fume/gas/mist/vapours/spray
P264 - Wash face, hands and any exposed skin thoroughly after handling
P271 - Use in a well-ventilated area.
P280 - Wear protective gloves, protective clothing, eye protection and face protection.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P301+ P310 - IF SWALLOWED: Immediately call a physician
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
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
P362 - Take off contaminated clothing and wash before reuse
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
P410 + P403 - Protect from sunlight. Store in a well-ventilated place
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 %
Aliphatic hydrocarbon resin	152698-66-3	15-40
Petroleum distillates, hydro treated light	64742-47-8	10-30
Petroleum distillates, hydro treated heavy naphthenic (<3% DMSO extractable)	64742-52-5	10-30
Propane	74-98-6	5-10
Pseudocumene	95-63-6	1-5
Butane	106-97-8	1-5
1,3,5-Trimethylbenzene	108-67-8	1-5
1,2,3-Trimethylbenzene	526-73-8	1-5
Cumene	98-82-8	0.1-1

4. FIRST AID MEASURES

General advice Avoid breathing vapours, 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 with soap and plenty of water. Get medical attention if irritation develops and persists.

Inhalation Move to fresh air. In case of shortness of breath, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.

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 Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.

5. FIRE-FIGHTING MEASURES

Flash Point 55 °C **Method** Seta closed cup

Auto ignition Temperature No information available.

Flammability Limits in Air %: Mixture. **Upper:** 9.5 **Lower:** 0.9

Suitable Extinguishing Media

Foam. Carbon dioxide (CO2). Water spray. Dry powder. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

Flammable. Solvent vapours are heavier than air and may spread along floors. Vapours may ignite and explode. Flame extension: 18 inches / 24 cm and Burn back: 0 inch / 0 cm.

Protective Equipment and Precautions for Firefighters

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

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Take precautionary measures against static discharges. Remove all sources of ignition. 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 labelled containers.

Neutralizing Agent Not applicable.

7. HANDLING AND STORAGE

Handling Keep away from open flames, hot surfaces and sources of ignition
Avoid breathing vapours, 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** 2°C **Maximum** 49°C

Storage Conditions **Indoor** X **Outdoor** **Heated** **Refrigerated**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ES-TWA	ISHL	ACGIH TLV	Petroleum distillates, hydro treated light		no data available	525 mg/m^3 TWA
Petroleum distillates, hydro treated heavy naphthenic (<3% DMSO extractable)		no data available	TWA: 5 mg/m^3; STEL: 10 mg/m^3	Propane		no data available	TWA: 1000 ppm
Pseudocumene	TWA: 25 ppm TWA: 123 mg/m^3	no data available	TWA: 25 ppm	Butane	TWA: 800 ppm TWA: 1900 mg/m^3	no data available	STEL: 1000 ppm
1,3,5-Trimethylbenzene	TWA: 25 ppm TWA: 123 mg/m^3	no data available	TWA: 25 ppm	1,2,3-Trimethylbenzene	TWA: 25 ppm TWA: 123 mg/m^3	no data available	TWA: 25 ppm
Cumene	skin notation STEL: 75 ppm STEL: 375 mg/m^3 TWA: 25 ppm TWA: 125 mg/m^3	no data available	TWA: 50 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 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

Appearance Transparent - Hazy
Colour Amber - Brown
Physical state liquid
Odour Petroleum distillates
Odour Threshold No data available
pH Not applicable
Melting Point/Range No data available
Freezing Point No data available
Boiling Point/Range No data available
Flash Point 55 °C

Method	Seta closed cup
Evaporation Rate	24.57 (Butyl acetate=1)
Vapour Pressure	1800.05 mmHg @ 21°C
Solubility	Negligible
Vapour Density	1.7 (Air = 1.0)
Specific Gravity	0.97
Auto ignition Temperature	No information available.
Viscosity	Semi-viscous
Molecular Weight	No data available
Percent Volatile (Volume)	0
VOC Content (%)	46.6
VOC Content (g/L)	0

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, Aldehydes, Ketones.
Possibility of Hazardous Reactions	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information

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

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

Dermal LD50 No information available mg/kg

Inhalation LC50

- **Gas** Not applicable mg/L
- **Mist** not applicable mg/L
- **Vapour** not applicable mg/L

Primary Routes of Entry Skin contact, Skin Absorption.

Main Symptoms

Acute Effects:

- **Eyes** Causes eye irritation.
- **Skin** Substance may cause slight 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 diarrhoea. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.

Chronic Effects: Repeated and prolonged exposure to solvents may cause brain and nervous system damage, Blood disorder may occur after prolonged inhalation, May cause cardiac arrhythmia, Liver and kidney injuries may occur, Contains a known or suspected carcinogen.

Target Organ Effects Liver, Kidney, Central nervous system, Blood, Eyes, Skin, Respiratory system, Cardiovascular system, Ears.

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

Acute Toxicity

Component	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Petroleum distillates, hydro treated light	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	no data available	no data available	no data available

Petroleum distillates, hydro treated heavy naphthenic (<3% DMSO extractable)	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)		no data available	no data available
Propane		Not applicable	= 658 mg/L (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
Butane		Not applicable	= 658 g/m^3 (Rat) 4 h	no data available	no data available
1,3,5-Trimethylbenzene		Not applicable	= 24 g/m^3 (Rat) 4 h	no data available	no data available
Cumene	= 1400 mg/kg (Rat)	= 12300 µL/kg (Rabbit)	> 3577 ppm (Rat) 6 h	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Propane	no data available	Not applicable	no data available	no data available.	Central nervous system
Pseudocumene	no data available	no data available	no data available	no data available.	Blood Skin Central nervous system Eyes Respiratory system
Butane	no data available	Not applicable	no data available	no data available.	Central nervous system
1,3,5-Trimethylbenzene	no data available	no data available	no data available	no data available.	Blood Skin Central nervous system Eyes Respiratory system
1,2,3-Trimethylbenzene	no data available	Not applicable	no data available	no data available.	Blood Skin Central nervous system Eyes Respiratory system
Cumene	no data available	Not applicable	no data available	no data available.	Skin Central nervous system Eyes Respiratory system

Carcinogenicity There are no known carcinogenic chemicals in this product.

12. ECOLOGICAL INFORMATION

Product Information No data available

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	log Pow
Petroleum distillates, hydro treated light	Not applicable	LC50 = 45 mg/L Pimephales promelas 96 h LC50 = 2.2 mg/L Lepomis macrochirus 96 h LC50 = 2.4 mg/L Oncorhynchus mykiss 96 h	no data available	Not applicable	N/A
Petroleum distillates, hydro treated heavy naphthenic (<3% DMSO extractable)	Not applicable	LC50 > 5000 mg/L Oncorhynchus mykiss 96 h	no data available	1000: 48 h Daphnia magna mg/L EC50	N/A
Propane	Not applicable	Oral	no data available	Not applicable	2.3
Pseudocumene	Not applicable	LC50 7.19 - 8.28 mg/L Pimephales promelas 96 h LC50 = 7.72 mg/L Pimephales promelas 96 h	no data available	6.14: 48 h Daphnia magna mg/L EC50	3.63
Butane	Not applicable	Oral	no data available	Not applicable	2.89
1,3,5-Trimethylbenzene	Not applicable	LC50 = 3.48 mg/L Pimephales promelas 96 h LC50 = 7.72 mg/L Pimephales promelas 96 h	no data available	Not applicable	N/A
1,2,3-Trimethylbenzene	Not applicable	LC50 = 7.72 mg/L Pimephales promelas 96 h	no data available	Not applicable	N/A

Cumene	EC50 = 2.6 mg/L Pseudokirchneriella subcapitata 72 h	LC50 6.04 - 6.61 mg/L Pimephales promelas 96 h LC50 = 4.8 mg/L Oncorhynchus mykiss 96 h LC50 = 2.7 mg/L Oncorhynchus mykiss 96 h LC50 = 5.1 mg/L Poecilia reticulata 96 h	EC50 = 0.89 mg/L 5 min EC50 = 1.10 mg/L 15 min EC50 = 1.48 mg/L 30 min EC50 = 172 mg/L 24 h	0.6: 48 h Daphnia magna mg/L EC50 7.9 - 14.1: 48 h Daphnia magna mg/L EC50 Static	3.55

Eco toxicity effects No information available
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 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-No UN1950
Proper Shipping Name Aerosols, Flammable
Hazard Class 2.1
Hazchem Code 2(Y)
Description UN1950, Aerosols,Flammable,2.1, LTD QTY

15. REGULATORY INFORMATION

Australia
POISON SCHEDULE Schedule 5

16. OTHER INFORMATION

Prepared By Arvind Rane
Super cedes Date Initial Release
Issuing Date DEC 2016
Reason for Revision Initial Release GHS-SDS FORMAT
List of References. No information available.

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