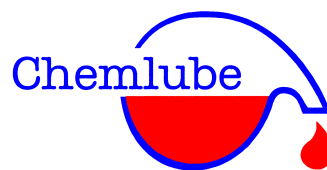


MATERIAL SAFETY DATA SHEET



Chem Pack Pty Ltd
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incorporating
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(Registered Business Names of Chem Pack Pty Ltd)



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Tap Lube Aerosol Spray

This product is classed as a Dangerous Goods according to criteria of NOHSC.
This product is classified as a Dangerous Goods for transport by road and rail.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Supplier: Chem Pack Pty Ltd
ABN: 62 060 283 089
Street Address: 120 Fulton Drive Derrimut Vic 3030
Telephone: + 61 3 8369 9999
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Emergency telephone number: 0412 582 924

Substance: Chemlube Tap Lube 400g Aerosol
Product name: Tap Lube
Product Use: Lubricant for metal cutting
Creation Date: 01 April 2009

2. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended Use: As a specialized lubricant for all kinds of metal cutting
Appearance: Colourless, slight odour

Chemical Entity	CAS NO.	Proportion (% weight/weight)
Propane Butane Blend	68475-59-2	25-40%
Dichloromethane	75-09-2	50-65%
Propar 32	N/A	5-15%

3. HAZARDS IDENTIFICATION

A. EMERGENCY OVERVIEW:

Physical Appearance and Odor:
Colourless, slight odour

Warning statements:
Based on available information, classified as hazardous according to health criteria of NOHSC Australia.

B. POTENTIAL HEALTH EFFECTS:

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Eye: May cause pain. May cause moderate irritation. Vapours can irritate eyes. May cause slight corneal injury.

Skin: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. May cause more severe response if confined to skin. Extensive skin contact, such as immersion, may cause an intense burning sensation, followed by a cold, numb feeling which will subside after contact.

Inhalation: Short term exposure: Irritation (possibly severe), nausea, irregular heartbeat; headache, symptoms of drunkenness, lung congestion, blood disorders.
Long term exposures: Chest pain, reproductive effects, effects on the brain.

Ingestion: Short term exposure: symptoms of drunkenness, tingling sensation, blood disorders, convulsions.

Chronic Effects: Major health hazards: Respiratory tract irritation, skin irritation, eye irritation, blood damage, central nervous system depression, cancer hazard (in humans).

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

4. FIRST AID MEASURES

- Ingestion:** If Vomiting occurs, keep head lower than hips to help prevent aspiration. Seek immediate medical assistance.
- Eye contact:** Flush immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains. Seek immediate medical assistance.
- Skin contact:** Remove contaminated clothing, jewellery, and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Seek medical attention if required.
- Inhalation:** Remove from exposure immediately. Use a bag valve mask or similar device to perform artificial respiration (rescue breathing) if required. If symptoms persist consult a doctor or Poisons Information Centre.

Notes to physician: Treat symptomatically. Exposure may increase "Myocardial irritability". No specific antidote; avoid epinephrine if possible. May cause eye irritation. If cornea is burned, instill antibiotic steroid preparation frequently. Increase in carboxyhaemoglobin may result. Never give adrenalin to victim of overexposure. Alcohol will increase toxic effect.

5. FIRE-FIGHTING MEASURES

Flash Point: -81 (Propellant), Active < - 18°C

Flammability Limits: (% Vol): Lower: 1.4, Upper: 7.6.

Suitable extinguishing media: Use carbon dioxide or regular dry foam as extinguishing media.

Hazards from combustion products: Could evolve toxic chlorine gas, toxic and irritating hydrogen chloride, and highly toxic and irritating phosgene on decomposition. Heat may build pressure or rupture closed containers. Poisonous and acrid smelling decomposition products may form in fire or on hot surfaces. Reacts violently with Lithium, Sodium, Potassium and potassium-tert-butoxide. Incompatible with alkaline earth metals aluminium and amines. Can form flammable vapour/air mixtures.

Precautions for Firefighters and Special Protective Equipment

In case of fire, use Self Contained Breathing Apparatus and Gloves.

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6. ACCIDENTAL RELEASE MEASURES

Cleanup and Disposal of Spill: Clean up personnel should wear full protective clothing including self contained breathing apparatus. Reduce vapours with water spray. Do not allow spilled material to enter water supplies or sewers. Avoid heat, flames, sparks and other sources of ignition. Stop leak if safe to do so. Keep unnecessary people away. Isolate hazard area and deny entry. Dig holding area such as a lagoon, pond or pit for containment. Dike for later disposal. Absorb with sand or other non-combustible material. For water spills – trap spilled material at bottom in deep water pockets, evacuated holding areas or within sand bag barriers. Remove trapped material with suction hoses. For small spills – absorb with sand or other non-combustible material.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid breathing vapours. Avoid accidents, clean up immediately. Avoid prolonged or repeated skin contact. Wash skin thoroughly after handling.

Precautions for Safe Storage: Protect from physical damage. Store in a cool, dry place. Ventilation required. Avoid heat, flames, sparks and other sources of ignition. Store in tightly closed containers. Store under an inert atmosphere. Keep separated from incompatible substances. Keep away from ignition sources at all times. Store aerosols in cool, dry environment below 38°C. Avoid storage with oxidizers, metals, bases and combustible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits

TWA – 25 ppm (OSHA)
TWA – 125 ppm/15 min (OSHA)
OSHA action level – 12.5 ppm
TWA – 50 ppm, 174 mg/m³ (ACGIH)

Engineering measures: Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Personal protection equipment: Use splash resistant safety goggles with a faceshield, appropriate chemical resistant clothing, chemical resistant gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Colourless, slight odour.

Specific Gravity (15°C):	0.71	Melting Point (°C):	N App
Rel. Vapour Density (air=1):	N Av	Boiling Point (°C):	40 to 140°C
Vapour Pressure (20°C):	N Av	Decomp. Point (°C):	N Av
Sublimation Point:	N App	pH (1% aqueous soln):	N Av
Autoignition Temp (°C):	N Av	Viscosity (20°C):	N Av
% Volatile by volume:	60% Below 150°C	Evaporation Rate:	Rapid
Solubility in water:	Below 0.1% mass		

(Typical values only - consult specification sheet)
N Av = Not available N App = Not applicable

10. STABILITY AND REACTIVITY

Stability: Stable under anticipated conditions of storage and handling.

Conditions to Avoid: Vapour/air mixtures with source of ignition

Incompatible materials: Strong oxidising agents, bases and combustible materials.

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11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled are:

Acute Effects

Ingestion: (rat) LD50: 1600 mg/kg.

Eye contact: (rabbit): 162 mg – moderate, 10mg – mild, 500 mg/24hr - mild

Skin contact: (rabbit): 810 mg/24hr – severe, 100 mg/24hr - moderate

Inhalation: (rat) LC50: 52 g/m³

Chronic toxicity: Carcinogen status: OSHA – carcinogen, NTP – anticipated human carcinogen, IARC – human inadequate evidence, animal sufficient evidence, Group 2B, ACGIH – A3 animal carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

LC50: 193000 ug/1/96hr (fathead minnow).

EC50: 1682000 ug/1/48hr (daphnia magna)

EC50: >662000 ug/1/96hr (diatom)

EC50: 17780 ug/1/8hr (bullfrog)

KOW: 5011.87 (log=3.70) – estimated from water solubility.

KOC: 3741.11 (log=3.57) – estimated from water solubility.

Henry's law constant: 3.4 E -3 atm-m³/mol.

Bioconcentration: 2.96 – estimated from water solubility.

Aquatic processes: 2.3908600 hrs (river mode, 1m deep, 1m/s flow, 3 m/s wind).

Harmful to aquatic life. Relatively non persistent in the environment. Not expected to leach through the soil or the sediment. Accumulates very little in the bodies of living organisms. Highly volatile from water.

13. DISPOSAL CONSIDERATIONS

Do not discharge into drains. Do not discharge into sewers.

Incinerate under supervised conditions, according to State/Territory Land Waste Management Regulations. Dispose of waste material via a licensed waste disposal contractor to a regulated land fill. Product or solvents may be collected for reclamation or disposal through licensed waste disposal contractors.

14. TRANSPORT INFORMATION

UN Number 1950

Class 2

Packing Group II

Road and Rail Transport

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

Based on available information, classified as dangerous goods according to health criteria of NOHSC Australia.

Poisons Schedule (Aust)/Toxic Substance (NZ): 5

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16. OTHER INFORMATION

Any advice, recommendation, information, assistance or service provided by Chem Pack Pty Ltd in relation to the goods supplied by it or their use or application is given in good faith and believed to be appropriate and reliable. However, it is provided with a disclaimer for any liability or responsibility on the part of Chem Pack Pty Ltd. The customer accepts all risk and responsibility for use of the goods alone, or in combination with other products. All warranties, guarantees and conditions, other than those expressly stated, and when implied by statute, common law, custom of the trade or otherwise, are to the extent that the law permits, expressly excluded.