MATERIAL SAFETY DATA SHEET

Chem Pack Pty Ltd

ABN 62 060 283 089
120 Fulton Drive Derrimut Vic 3030
incorporating

Citro-Clean Products & Chemlube

(Registered Business Names of Chem Pack Pty Ltd)

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Instant Degreaser 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
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Street Address: 120 Fulton Drive Derrimut Vic 3030
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Substance: Chemlube Instant Degreaser 400g Aerosol Spray
Product name: Instant Degreaser Aerosol Spray
Product Use: Multi-purpose industrial cleaner
Creation Date: 01 April 2009

2. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended Use: As a multi-purpose industrial cleaner
Appearance: Colourless, slight odour

Chemical Entity	CAS NO.	Proportion (% weight/weight)
Propane Butane Blend	68475-59-2	25-40%
Dichloromethane	75-09-2	10-25%
Aliphatic Hydrocarbon	64742-89-8	30-40%
Dimethyl Ketal	67-64-1	10-25%

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:

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

Skin: Irritating to skin.

Inhalation: Narcotic at high vapour concentrations. Aspiration into the lungs may cause chemical pneumonitis.

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

Chronic Effects: Causes serious nerve damage by prolonged exposure resulting in sensory loss. Possible risk of impaired fertility.

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: Do not induce vomiting, give nothing by mouth. OBTAIN MEDICAL ATTENTION IMMEDIATELY.
Eye contact: Flush eye with water using soap if available.
Skin contact: Wash skin with water using soap if available.
Inhalation: Remove to fresh air. If rapid recovery does not occur, obtain medical attention.

Notes to physician: Dermatitis may result from prolonged or repeated exposure. Aspiration into the lungs may cause chemical pneumonitis. Causes central nervous system depression.

5. FIRE-FIGHTING MEASURES

Flash Point: Propellant - 81ºC , Product < -18ºC
Flammability Limits: (% Vol): Lower: 1.4, Upper: 7.6

Suitable extinguishing media: Use carbon dioxide, dry chemical powder or regular dry foam as extinguishing media. Sand or earth may be used for small fires.

Hazards from combustion products: Could evolve carbon monoxide if incomplete combustion occurs.

Precautions for Firefighters and Special Protective Equipment
Will float and can be reignited on surface water. The vapour is heavier than air, spreads along the ground and distant ignition is possible. In case of fire, use Self Contained Breathing Apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Cleanup and Disposal of Spill: Avoid contact with skin, eyes. Do not breathe vapour. Ventilate contaminated area thoroughly. Cleanup personnel should wear nitrile rubber gloves, gauntlet type, jacket and trousers – nitrile rubber, safety boots – rubber, knee length. Wear full face-piece respirator with organic vapour canister and built-in particulate filter NPF 1000 (gas only). In a confined space wear self-contained breathing apparatus open circuit type NPF 2000.
Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.
Absorb or contain liquid with sand, earth or spill control material. Shovel up and place in a labeled, sealable container for subsequent safe disposal. Put leaking containers in a labeled drum or overdrum. Scrub contaminated surfaces with detergent solution. Retain washings as contaminated waste.
Risk of explosion. Inform the emergency services if liquid enters surface water drains. Vapour may form an explosive mixture with air.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid breathing vapours, use local exhaust extraction. Avoid accidents, clean up immediately. Avoid prolonged or repeated skin contact. Wash skin thoroughly after handling. Extinguish any naked flames, remove ignition sources, avoid sparks, do not smoke. Take precautionary measures against static discharges.

Precautions for Safe Storage: Protect from physical damage. Store in a cool, dry place. Ventilation required. Avoid direct sunlight, heat, flames, sparks and other sources of ignition. 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 (8 h) = 200 ppm (770 mg/m3)

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 with slight odour.

Specific Gravity (15°C):	0.71	Melting Point (°C):	N App
Rel. Vapour Density (air=1):	N Av	Boiling Point (°C):	40°C to 140ºC
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 150ºC	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: Heat, flames and sparks.

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

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: Expected to be of low toxicity, LD50 > 2000 mg/kg.

Eye contact: Not irritating.

Skin contact: Expected to be of low toxicity, LD50 > 2000 mg/kg, skin irritant, not a skin sensitizer.

Inhalation: Expected to be of low toxicity, LC50 > 5 mg/l.

Chronic toxicity: Repeated exposure can cause peripheral neuropathy. Not expected to be mutagenic. Not expected to be a reproductive toxicant. Causes slight foetotoxicity at doses which are maternally toxic. This product contains n-hexane which has been shown to metabolize to compounds which are neuropathic. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis. High exposures can cause drowsiness and

dizziness. Aspiration into the lungs may cause chemical pneumonitis which can be fatal.

12. ECOLOGICAL INFORMATION

Ecotoxicity:
Incomplete ecotoxicological data are available for this product. The information given below is based partly on a knowledge of the components and the ecotoxicology of similar products.
Floats on water. Evaporates within a day from water or soil surfaces.
Readily biodegradable. Based on product composition. Oxidises rapidly by photo-chemical reactions in air. Integrated environmental half-life expected to be 1 - < 10 days. Has the potential to bioaccumulate.
For fish, invertebrates, algae, bacteria and sewage treatment: Expected to be toxic, 1 < LC/EC/IC 50 < = 10 mg/l.
In view of the high rate of loss from solution, the product is unlikely to pose a significant hazard to aquatic life.

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

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.