SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **COLD DIP LS846**
Synonyms: UN 2810, TOXIC LIQUID, ORGANIC, N.O.S.
Use: Used for decarbonising cylinder heads.

Supplier: Advance Chemicals
ABN: 61 005 625 025
Street Address: 4 – 8 Malton Court, Altona, 3018
Telephone Number: (03) 9398 4444
Facsimile: (03) 9398 5278

Emergency Telephone: Ted Powell (03) 9398 4444 (Business Hours)
0425 800 022 (After Hours)

2. HAZARDS IDENTIFICATION

Classified as hazardous according to criteria of the Globally Harmonised System of Classification and Labelling of Chemicals 3rd Revised Edition.

Hazard Classification: HAZARDOUS SUBSTANCE, DANGEROUS GOODS.

Classification of the substance or mixture:
Carcinogenicity – Category 2
Germ cell mutagenicity – category 2
Acute toxicity (INHALATION) – category 3
Acute toxicity (DERMAL) – category 3
Acute toxicity (ORAL) – category 3
Specific target organ toxicity (repeated exposure) – category 2
Skin corrosion – category 1B

SIGNAL WORD: WARNING

Hazard Statement(s):
H351 – Suspected of causing cancer
H341 – Suspected of causing genetic defects
H331 – Toxic if inhaled
H311 – Toxic in contact with skin
H301 – Toxic if swallowed
H373 – May cause damage to organs through prolonged or repeated exposure
H314 – Causes severe skin burns and eye damage

Precautionary Statement(s):

Prevention:
P101 – If medical advice is needed, have product container or label at hand
P102 – Keep out of reach of children.
P103 - Read label before use
P104 - Read Safety Data Sheet before use
P201 – Obtain special instructions before use
P202 – Do not handle until all safety precautions have been read and understood.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P261 – Avoid breathing fumes/gas/mist/vapours/spray
P271 – Use only outdoor or in a well ventilated area
P264 – Wash hands thoroughly after handling
P262 – Do not get in eyes, on skin or on clothing
P270 – Do not eat, drink or smoke while using this product.

Response:
P305 + P313 – IF exposed or concerned: Get medical advice/attention
P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P303 + P361 + P353 – IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 – Wash contaminated clothing before use
P301 + P330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P314 – Get medical advice/attention if you feel unwell
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage:
P403 + P233 – Store in a well-ventilated place. Keep container tightly closed
P405 – Store locked up

Disposal:
P501: Dispose of contents/container in accordance with local waste management authority.

Poisons Schedule (Australia): 6

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	C.A.S. No.	Proportion	Risk phrases
Methylene Chloride	75-09-2	Greater than 60%	**H351**
Phenols	108-95-2	10 – <30 %	**H341, H331, H311, H301, H373, H314**
Emulsifying Agents	-	Less than 10%	
Corrosion Inhibitors	-	Less than 10%	
Stabilizers	-	Less than 10%	

4. FIRST AID MEASURES

Inhalation: Remove victim from exposure. Avoid becoming a casualty. Allow patient to assume a comfortable position and keep warm. Keep at rest until fully recovered. If breathing is laboured, and patient cyanotic, ensure airways are clear and give oxygen through a face mask. Seek immediate medical attention.

Skin Contact: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If irritation develops, seek immediate medical attention.

Eye Contact: Hold eyelids apart and flush continuously with running water for 15 minutes, or until advised to stop by Poisons Information Centre. Take care not to rinse contaminated water into non-affected eye. In all cases of eye contamination seek immediate medical attention.

Ingestion: Immediately rinse mouth with water and spit out. If swallowed, do NOT induce vomiting. Give a glass of water. Get to a doctor or hospital quickly.

Medical advice: For advice, contact Poisons Information Centre, phone 131126, or call a doctor.

Notes to Doctor: Treat symptomatically. Do not administer catecholamines because of the cardiac effect of this product.

5. FIRE FIGHTING MEASURES

Specific Hazards: Temperatures above 120^{o}C. Thermal decomposition produces toxic and corrosive products such as hydrogen chloride gas and phosgene. Produces carbon monoxide and hydrogen gases.

Fire fighting advice: Wear self-contained breathing apparatus and full protective clothing to prevent exposure to vapours, fumes or products of combustion. Keep run-off water out of sewers and water sources as far as possible.

Fire Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical. Do not use water jets.

Hazchem Code: 2X

Flammability: Non Flammable Liquid.

6. ACCIDENTAL RELEASE MEASURES

Evacuate all unnecessary personnel. Wear sufficient respiratory protection and protective clothing to minimise respiratory, skin and eye exposure. Stop the leak if safe to do so, and contain the spill. Prevent spillage from entering drains or waterways. Place inert absorbent, non-combustible material onto spillage. Collect spilled material into labelled containers for recycling or disposal. Clean up spillage area, and prevent runoff from entering drains and waterways. If the spilled material enters the waterways, contact the Environmental Protection Authority or your local waste management Authority.

7. HANDLING AND STORAGE

Handling advice: Buildup of mists or vapours in the atmosphere must be prevented. Avoid breathing spray, mists, or vapours. Do not use near welding or other ignition sources and avoid sparks. Do not smoke. It is essential that all who come into contact with this material maintain high standards of personal hygiene; ie, washing hands prior to eating, drinking, smoking, or using toilet facilities.

Storage advice: Store in a dry, well-ventilated area away from heat, sources of ignition, foodstuffs, clothing, direct sunlight, and moisture. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational Exposure Limits:
Methylene Chloride – 8 hour Time Weighted Average is 50 ppm. Short Term Exposure Limit is 300 ppm.
Phenol – 1 ppm 8 hour Time Weighted Average.

Engineering Controls: Good ventilation adequate to maintain airborne contamination below the exposure limits is required. The use of a local exhaust ventilation system to draw vapours/mists away from the work area is strongly recommended. If engineering controls are not sufficient to maintain concentrations of particulates below exposure standards, respiratory protection must be worn.

Personal Protection Equipment: If engineering controls are not effective in controlling airborne exposure then:

- Use of an air respirator complying with AS/NZS 1715 and AS/NZS 1716 is recommended. Filter capacity and respirator types depend on exposure and individual circumstances.
- Safety glasses with side shields or goggles must be worn. Eye protection shall conform to AS/NZS 1337.
- Wear supported PVA or BCR gloves gloves conforming to AS/NZS 2161.
- Chemical resistant clothing must be worn and if large quantities are involved a plastic apron and rubber boots is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dark yellow single phase liquid with a chlorinated hydrocarbon odour.
Boiling Point: 40^{o}C
Melting Point: Not known.
Flash Point: Not available.
Vapour Pressure: 355 mm Hg at 20^{o}C
Vapour Density (Air = 1): 2.9
Flammability Limits: Not available.
Specific Gravity: 1.24
pH (1% solution): Not applicable.
Solubility in water: Insoluble.
Corrosive: Corrosive to skin and membranes, not corrosive to metal.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and handling.

11. TOXICOLOGICAL INFORMATION

Oral – Phenol LD50 (Rats): 414 mg/kg. Moderately toxic.
Dermal – Phenol LD50 (Rabbit): 1120 mg/kg. Moderately toxic.

Acute Health Effects:

Ingested: Harmful if swallowed. Corrosive to mouth and throat. Phenol is readily absorbed through the skin and mucous membranes. The major toxic effects of phenol are exerted on the central nervous system.

Eye: Severe irritant to the eyes. Vapour may irritate and cause lachrymation of the eyes.

Skin: Causes burns. Has a degreasing action on skin. Repeated or prolonged contact may result in dermatitis. When dealing with large quantities, repeated or prolonged skin exposure without protection must be prevented to lessen the possibility of skin and systemic disorders.

Inhaled: Vapour irritates mucous membranes and respiratory tract. It produces symptoms such as headache, nausea, dizziness, central nervous system depression, and loss of consciousness. Effects can be multiplied by alcohol and effort.

Chronic: Evidence from animal tests indicates that repeated or prolonged exposure to high concentrations may result in liver, kidney, and heart disorders. Methylene chloride and phenol are classified as suspected human carcinogens and mutagens.

12. ECOLOGICAL INFORMATION

Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment. Do not allow product to enter drains, waterways or sewers.

LC50 (fish, 96h) = 193 - 510 mg/L
EC50, 30 min > 1000 mg/L

13. DISPOSAL CONSIDERATIONS

Dispose of waste according to Environmental Protection Authority, federal, state and local regulations.

14. TRANSPORT INFORMATION

UN Number: 2810

Proper Shipping Name: UN2810, TOXIC LIQUID, ORGANIC, N.O.S.

Dangerous Goods Class: 6.1

Subsidiary risk: 8

Packing Group: II

Hazchem Code: 2X

Road and Rail Transport: This product is classified as Dangerous Goods according to the criteria of Australian Code for Transport of Dangerous Goods (ADG Code).

15. REGULATORY INFORMATION

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Poisons Schedule: 6

16. OTHER INFORMATION

This S.D.S. is valid for 5 years from the date of issue but may be withdrawn and revised anytime prior to that date. Please ensure that you are using the latest issue.

All information contained in this Safety Data Sheet is as accurate and up-to-date as possible. Since ADVANCE CHEMICALS cannot anticipate or control the conditions under which this information can be used, each user must review this information in the specific context of the intended application.

ADVANCE CHEMICALS will not be responsible for any damage or loss of any nature resulting from the use of or reliance upon this information. No expressed or implied warranties are given other than those mandated by Commonwealth, State or Territory legislation.

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