

MATERIAL SAFETY DATA SHEET

Revision #: 03

Section 1 - Product Identification & Use

Product Name: **Lift Station Degreaser**
Product Use: Lift station emulsifier, degreaser and deodorizer.
WHMIS Classification: Class B3; Class D2B
TDG Classification: Flammable Liquids, n.o.s. (terpene hydrocarbons) UN 1993, Class 3, III
Manufacturer: Advance Chemicals Ltd.
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Section 2 - Hazardous Ingredients

Hazardous Components	%(w/w)	C.A.S. No.	LD ₅₀ & LC ₅₀
p-Mentha-1,8-diene	60-100	5989-27-5	(oral, rat) 4400mg/kg

Section 3 - Physical Data

Physical state: liquid Boiling point: 176°C
Liquid density: 0.84 g/mL Freezing point: -25°C
pH: N/A Solubility in water: not soluble
Vapour pressure: 1.2 mm Hg % volatile by volume: >90%
Odour & Appearance: Clear, bright red liquid, pleasant citrus odour.

Section 4 - Fire and Explosion Hazard Information

Flash point/method: 46.1°C
Flammability: The product is considered combustible.
Extinguishing media: Use an extinguishing media for surrounding the fire, or all purpose foam by manufacturer's recommended techniques for large fires. Water spray, dry powder or aqueous film forming foam (AFFF). Alcohol resistant type with 6% foam proportioning equipment or CO₂.
Special Fire Fighting Procedures: Fire fighters must wear full face, positive pressure, self-contained breathing apparatus or airline respirator and appropriate protective clothing.
Hazardous Combustion Products: CO₂, CO, smoke and unidentified organic compounds may be formed during combustion.
Sensitivity to static discharge: Not determined.

Section 5 - Reactivity Data

Stability: Stable.
Incompatible substances: Strong oxidizers. Avoid contact with sparks, flame and heat.
Polymerization: Will not occur.

Section 6 - Toxicological Properties

Acute Toxicity: No data found.
Carcinogenicity: No human information
Respiratory & Skin Sensitization: Repeated or prolonged skin contact may cause an allergic skin response (redness, swelling, itching).
Reproductive Effects: Not determined.
Effects of Exposure:
Skin contact: Causes mild skin irritation.
Eye contact: Irritation.
Inhalation: Irritating to throat and lungs.
Ingestion: Ingestion of 20 g p-Mentha-1,8-diene caused diarrhea and a temporary increase in protein in the urine (proteinuria) in 5 male volunteers.
Chronic Effects of exposure: Low levels of p-Mentha-1,8-diene in the diet (about 100 ppm) have not been reported to cause adverse effects in humans. Animal tests suggest that repeated ingestion of large quantities of p-Mentha-1,8-diene may cause kidney damage.

Section 7 - Preventative Measures

Skin protection: Gloves and protective clothing made from neoprene should be impervious under normal conditions of use.
Eye protection: Safety glasses with side shields are recommended, safety goggles if there is a potential for eye contact.
Other Personal Protective Equipment: Avoid contact with product by wearing chemical protective clothing and rubber boots if necessary. Eye wash fountains and safety shower facilities should be provided nearby for emergency use.
Respiratory protection: Based on contamination level and working limits of the respirator, use a respirator approved by both NIOSH and MSHA.
Ventilation Requirements: This product should be used in a well ventilated area at all times. Local exhaust ventilation may be required. Do not use this product in a poorly ventilated or confined area without approved respiratory protection.

Action to take for spills & leaks: Eliminate all sources of ignition. Wear chemical protective clothing, rubber gloves and suitable respiratory protection. **SMALL SPILLS** should be wiped up with absorbent material and disposed of in government approved waste containers. **LARGER SPILLS** should be contained by diking with sand, soil or other absorbent, non-combustible material, then transferred into approved waste containers for proper disposal. Keep product out of sewers, storm drains, surface run-off water and soil. Can be dangerous if allowed to enter potable water intakes. Wear appropriate respiratory protection and restrict access to non-protected personnel. Comply with all government regulations on spill reporting, and handling and disposal of waste.

Disposal methods: Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, provincial and local regulatory agencies to ascertain proper disposal procedures.

Note: Empty containers can have residues, gasses and mists, and are subject to proper waste disposal as mentioned above.

Repair and Maintenance Precautions: Do not cut, grind, weld or drill in, on or near this container. Do not re-use the original container for any other product, substance, food or drink.

Storage and Handling Procedures: Store in totally enclosed equipment designed to avoid human contact. Avoid contact with incompatible materials. No smoking or open flame in storage, use or handling areas. Use explosion proof electrical equipment. Ensure proper electrical grounding procedures are in place. Avoid protective materials of rubber, use neoprene, or check with manufacturer.

Section 8 - First Aid Measures

If inhaled: Remove victim to fresh air. Give artificial respiration if not breathing. Get immediate emergency medical attention.

In case of eye contact: Immediately flush eyes with clean water for at least fifteen (15) minutes, lifting the upper and lower eye lids occasionally. Get immediate emergency medical attention.

In case of skin contact: Immediately flush skin with plenty of clean running water for at least fifteen (15) minutes, use soap and water for final clean-up. Remove contaminated clothing and shoes. Wash and launder clothes before re-use. If irritation persists after washing, get immediate medical attention.

In case of ingestion or swallowing: If victim is conscious and not convulsing, rinse mouth out with water, and give several glasses of water or milk to dilute stomach contents, then induce vomiting. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS VICTIM. Immediately contact local poison control centre. If spontaneous vomiting occurs, have patient lean forward with head down to avoid breathing in the vomit. Rinse mouth out and administer more water. GET IMMEDIATE EMERGENCY MEDICAL ATTENTION.

Section 9 - Preparation Information

Advance Chemicals Ltd. expressly disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose with respect to the product provided. The information contained herein is offered only as a guide to the handling of this specific product, and has been prepared in good faith by technically knowledgeable personnel. This M.S.D.S. is not intended to be all inclusive, and the manner and conditions of use may involve other and additional considerations.

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