



MATERIAL SAFETY DATA SHEET

MSDS # L10

ARCTIC FIRE DUST SUPPRESSANT

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: Dust Suppressant

PRODUCT CODES: 582-000

CHEMICAL FAMILY: Solvent Neutral Oil

EMERGENCY PHONE: CHEMTREC – (800) 424-9300 or (703) 527-3887 (collect)

SUPPLIER: Sinclair Oil Corporation
P.O. Box 30825
Salt Lake City, Utah 84130

TELEPHONE / FAX: (888) 340-3466 / (801) 524-2740

2. COMPOSITION, INFORMATION ON INGREDIENTS

General Information: MAPLLC 100 HF Solvent Neutral Oil (CAS # 64742-65-0) is a complex combination of hydrocarbons obtained from a solvent de-waxing process it consists of predominantly paraffinic hydrocarbons having carbon numbers in the range of C20-C50.

COMPONENTS	CAS#	Typical wt.%
Solvent De-waxed Heavy Paraffinic (Severely Refined Paraffinic Oil)	64742-65-0	100

3. HAZARDS IDENTIFICATION

APPEARANCE: Amber

PHYSICAL STATE: liquid

ODOR: Slight Hydrocarbon odor

EMERGENCY OVERVIEW: 100 Solvent Neutral Oil is a non-volatile and non combustible amber liquid per the OSHA Hazard Communication Standard, But will ignite and burn at temperatures exceeding the flash point. This product has been evaluated and does not require any hazard warning label under the OSHA Hazard Communication Standard. Avoid prolonged skin contact with used oils. Do not inhale mists or fumes.

INHALATION: Exposure to vapors or mists of this oil may cause respiratory irritation, dizziness and nausea. prolonged overexposure to vapors or mists may produce chemical pneumonitis.

EYE CONTACT: Short-term liquid or vapor contact may result in slight eye irritation

SKIN CONTACT: Prolonged or repeated liquid contact can cause dermatitis, folliculitis or oil acne.

INGESTION: Solvent neutral oil has a low order of acute toxicity. similar neutral oils have oral LD50 values of >5 gm/kg

CHRONIC: Prolonged and/or frequent contact may cause drying, cracking (dermatitis) or folliculitis.

CARCINOGENICITY: The international agency for research on cancer (IARC) has determined that there is no evidence that severely solvent-refined oils are carcinogenic to experimental animals.

4. FIRST AID MEASURES

INHALATION: If affected move person to fresh air. If breathing is difficult administer oxygen. If not breathing or no heartbeat begin artificial respiration or CPR immediately and call a physician. If symptoms or irritation occur with any exposure contact a physician.

EYE CONTACT: Flush immediately with water for at least 15 minutes. If symptoms or irritation persist seek medical attention promptly.

SKIN CONTACT: Wash contact areas with soap and water. Launder contaminated clothing before reuse.

INGESTION: Not expected to be a problem, however, if greater than ½ liter (pint) ingested, immediately give 1 to 2 glasses of water and call a physician, hospital emergency room or poison control center for assistance. **DO NOT INDUCE VOMITING** or give anything by mouth to an unconscious person.

INJECTION: Seek medical aid.

NOTES TO PHYSICIAN: High velocity injection under the skin may result in serious injury. If left untreated the affected area is subject to infection, disfigurement, lack of blood circulation and may require amputation. When dispensed by high pressure equipment this material can easily penetrate the skin and leave a bloodless puncture wound. Material injected into a finger can be deposited into the palm of the hand within 24-48 hours the patient may experience swelling, discoloration and throbbing pain in the affected area. Immediate treatment by a surgical specialist is recommended.

5. FIRE FIGHTING MEASURES

FLASH POINT: >380°F

FLAMMABLE LIMITS: Not Determined

AUTOIGNITION TEMPERATURE: Not Determined

FLAMMABILITY CLASSIFICATION: NFPA Flammability =1

GENERAL HAZARD: Solvent neutral oil is not a combustible liquid per the OSHA Hazard Communication Standard, but will ignite and burn at temperatures exceeding the flash point.

FIRE FIGHTING INSTRUCTIONS: Special Fire Fighting Procedure: Use water spray to cool fire exposed surfaces and to protect personnel. Isolate "fuel" supply from fire. Avoid spraying water directly into storage containers due to danger of boil over. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode

COMBUSTIBLE LIQUID: Can form combustible mixtures at temperatures at or above the flashpoint.

STATIC DISCHARGE: Material can accumulate static charges, which can cause an incendiary electrical discharge.

UNUSUAL FIRE OR EXPLOSION HAZARD: Water may cause frothing Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum re-conditioner, or properly disposed of.

FIRE FIGHTING MEDIA: CO₂, dry chemical, foam, water fog, (water may cause frothing)

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:

-Remove sources of heat or ignition.

-Provide adequate ventilation .

-Small Spills: Take up with noncombustible absorbent such as fullers earth or sand. Place into containers for later disposal.

-Large Spills: Contain spill in earthen dikes for later recover. Control ignition sources around spill area. Report spills as required to appropriate authorities. Report spill to Coast Guard toll free number (800) 424-8802 for spills that could reach any waterway including intermittent dry creeks. In case of accident or road spill notify Sinclair Oil Corporation at (888) 340-3466 or Chemtrec Emergency Spill (800) 365-7300

7. HANDLING AND STORAGE

STORAGE / HANDLING: Comply with all applicable OSHA, NFPA and consistent local requirements. Use appropriate grounding and bonding practices. Store in properly closed containers that are appropriately labeled and in a cool well-ventilated area. Do not cut, drill, grind or weld on empty containers since they may contain explosive residues. Do not pressurize or expose to heat or open flame, strong oxidizers or other sources of ignition. Avoid repeated or prolonged skin contact. Exercise good personal hygiene including removal of soiled clothing and prompt washing with soap and water.

8. EXPOSURE CONTROLS, RESPIRATORY & PERSONAL PROTECTION

ENGINEERING CONTROLS: Local or general exhaust required when using at elevated temperatures that generate vapors or mists. Use in well-ventilated confined spaces, mechanical ventilation may be required to keep levels of certain components below mandated standards. Responsible individuals should evaluate the concentrations of specific regulated chemicals.

PERSONAL PROTECTION:

PROTECTIVE CLOTHING: Wear body-covering work clothes to avoid prolonged or repeated exposure. Launder soiled work clothes before reuse. Safety goggles, or chemical splash goggles if splashing is anticipated. Wear oil impervious gloves such as neoprene, nitrile or PVA if frequent or prolonged contact is expected.

RESPIRATOR: Not normally required for routine operations. Approved organic vapor chemical cartridge or supplied air respirators should be worn when excessive vapors or mists are generated. Observe respirator protection factor criteria cited in ANSI Z88.2. Self-contained breathing apparatus should be used for fire fighting.

OCUPATIONAL EXPOSURE LIMITS

COMPONENT	LIMIT	TWA	STEL	CEILING	NOTATION	OTHER
Oil mist	OSHA PEL	5mg/M ³				
Oil mist	ACGIH TLV	5mg/M ³	10mg/M ³			

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: Liquid

COLOR: Amber

DENSITY/SPECIFIC GRAVITY (g/ml): 0.85 – 0.87, (7.1 – 7.3 lbs/gallon @ 60°F)

VAPOR DENSITY (air=1): >1

VAPOR PRESSURE: <1mmHg @ 100° F

BOILING POINT/RANGE: >425°F

SOLUBILITY IN WATER: Negligible

VISCOSITY sus@100°F: 100-115

pH : Neutral

EVAPORATION RATE (Butyl Acetate=1): Negligible

10. STABILITY AND REACTIVITY

GENERAL: This product is stable.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: Heat and open flames. Strong oxidants, strong acids

HAZARDOUS DECOMPOSITION: Carbon monoxide. Carbon dioxide. Aldehydes and Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Chronic skin painting studies with severely solvent refined neutral oils did not produce evidence of skin cancer in mice. solvent neutral oil may be toxic to aquatic life.

12. DISPOSAL INFORMATION

WASTE DISPOSAL: This product as supplied and by itself, when discarded or disposed of, is not a RCRA hazardous waste. This material could also become a hazardous waste if mixed or contaminated with a listed hazardous waste. It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

- Check before disposing to be sure you are in compliance with all applicable laws and regulations.
- Treat used oil according to current rules and regulations.

Protective Measures During Repair and Maintenance of Contaminated Equipment:

- Wash exposed skin thoroughly with soap and water.
- Use polymer gloves if extended, direct contact is expected.
- Avoid prolonged contact with used oil.
- Supplied air respiratory protection should be used for cleaning large spills or upon entry into tanks, vessels, or other confined spaces.

After draining oil, wash skin thoroughly with soap and water. Empty containers may contain product residue, which could include flammable or explosive vapors. Consult appropriate Federal, State and Local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers and/or waste residues of this product.

EPA Hazard Class: NA

Dispose of in accordance with Federal, State, and Local regulations.

13. TRANSPORT INFORMATION

DOT (Department of Transportation):

PROPER SHIPPING NAME: Non-regulated

HAZARD CLASS: Non-Hazardous (Not regulated by US DOT)

IDENTIFICATION NUMBER: None

14. REGULATORY INFORMATION

The following regulations apply to this product:

OSHA hazard communication standard (29 CFR 1910.1200):

This product has been evaluated and determined to be **non-hazardous** as defined in OSHA'S hazard communication standard. ;

EPA toxic substances control act (40 CFR part 710):

This product and/or its components are listed on the TSCA chemical inventory.

EPA SARA TITLE III Superfund Amendments and Reauthorization Act.--Emergency Planning & Community Right-to-Know Act.

Extremely hazardous substances (40 CFR Part 355):

This product contains the following component(s) identified on appendix a and b of the extremely hazardous substance list (At a level of 1% or greater if hazardous; 0.1% or greater if carcinogenic): **None.**

Emergency release notifications (40 CFR Part 355):

This product contains the following component(s) identified either as an extremely hazardous substance (40 cfr 355) or a CERCLA hazardous substance (40 CFR 302) which in case of a spill or release may be subject to emergency release reporting requirements: **None.**

Material safety data sheet requirements (40 CFR part 370):

The following EPA hazard categories apply to this product: **None.**

MSDS's or a list of MSDS's and their hazards (see EPA hazard categories above) may be required to be submitted to the state

Emergency Response Commission (SERC). local emergency planning committee (LEPC) and local fire department (LFD)..

In addition, a tier II or tier I Form may be required to be submitted annually to the SERC. LEPC and LFD if applicable threshold reporting quantities are exceeded. current federal thresholds are:

10.000 pounds or more of an OSHA hazardous substance or 500 pounds or the threshold planning quantity. Whichever is less of an extremely hazardous substance.

Note: thresholds may vary according to local AHD state regulations, toxic chemical release reporting (40 CFR part 372).

This product contains the following component(s) (at a level of ix or greater if hazardous; 0.1% or greater if carcinogenic) that may be subject to reporting on the toxic release inventory (tri) form R: **None.**

State and community right-to-know regulations;

This material may be regulated by Louisiana's right-to-know law (regulatory statute 30:2361),

15. OTHER INFORMATION

NFPA 704/HMIS:

Health – 1 Flammability – 1 Reactivity – 1

(0 = insignificant, 1 = slight, 2 = moderate, 3 = high, 4 = extreme)

REVISION SUMMARY:

Complete review of MSDS, December 2005.

THIS PRODUCT MATERIAL SAFETY DATA SHEET PROVIDES HEALTH AND SAFETY INFORMATION. THE PRODUCT SHOULD BE USED IN APPLICATIONS CONSISTENT WITH THIS PRODUCT LITERATURE. FOR ANY OTHER USES, EXPOSURES SHOULD BE EVALUATED SO THAT APPROPRIATE HADLING PRACTICES AND TRAINING PROGRAMS CAN BE ESTABLISHED TO ENSURE SAFE WORKPLACE OPERATIONS.

THIS MATERIAL SAFETY DATA SHEET IS PROVIDED IN GOOD FAITH AND MEETS THE REQUIREMENTS OF THE HAZARDOUS COMMUNICATION PROVISIONS OF SARA TITLE III AND 29CFR1910.1200(g) OF THE OSHA REGULATIONS. THE ABOVE INFORMATION IS BASED ON REVIEW OF AVAILABLE INFORMATION SINCLAIR BELIEVES IS RELIABLE AND IS SUPPLIED FOR INFORMATIONAL PURPOSES ONLY. SINCLAIR DOES NOT GUARANTEE ITS COMPLETENESS OR ACCURACY. SINCE CONDITIONS OF USE ARE OUTSIDE THE CONTROL OF SINCLAIR, SINCLAIR DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, AND ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM THE USE OF THE ABOVE DATA. NOTHING HEREIN IS INTENDED TO PERMIT INFRINGEMENT OF VALID PATENTS AND LICENSES.

DATE: December 2005