

24-HOUR EMERGENCY PHONE NO; CHEMTREC, 800/424-9300

MATERIAL SAFETY DATA SHEET—PUR-SOL

TRADE NAME: **PUR-SOL**

PRODUCT CLASS: Methyl esters
PRODUCT NUMBER: 2144

CHEMICAL PRODUCT & COMPANY IDENTIFICATION:

Ingredient Name	CAS Number	Weight Range
Methyl ester, soybean oil	67784-80-9	40-70%
Ethyl lactate	97-64-3	40-70%

HAZARDS IDENTIFICATION

Emergency Overview

Clear liquid, yellow color. Sharp, pungent odor. Caution! Combustible.
May cause irritation to the eyes, skin, and respiratory system.

Health Effects: Eyes

This product may cause slight irritation to the eyes.

Health Effects: Skin

May cause slight skin irritation.

Health Effects: Inhalation

Inhalation of concentrated mists/vapors may cause anaesthesia-like effects including headache, dizziness, and nausea.

Health Effects: Ingestion

Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

Telephone Numbers - 24 Hour Emergency Assistance

Chemtrec 800-424-9300 Chemtrec Int'l 703-527-3887

FIRST AID MEASURES

Eyes

Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If irritation persists get medical attention.

Skin

For skin contact flush with large amounts of water. If irritation persists, get medical attention.

Inhalation

If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion

If ingestion of a large amount does occur, seek medical attention. Do not induce vomiting.

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FIRE FIGHTING MEASURES

Possibility of spontaneous combustion ("oily rag" problem). Rags soaked with any solvent present a fire hazard and should always be stored in a UL listed or Factory Mutual approved, covered container. Improperly stored rags can create conditions that lead to oxidation that, in turn, may lead to spontaneous combustion.

Flash Point (61.7 – 62.8°C), 143-145°F

Fire and Explosion Hazards

Toxic fumes may be released in case of fire.

Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog.

Fire Fighting Equipment / Instructions

Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

ACCIDENTAL RELEASE MEASURES**Spill and Leak Procedures****Emergency Action:**

Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

Do not touch or walk through spilled material. Wear appropriate personal protective equipment during cleanup.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Large Spills: Dike ahead of liquid spill for later disposal. Prevent entry into waterways, sewers, basements or confined areas.

Surfaces may become slippery after spillage.

HANDLING & STORAGE**Handling Procedures**

Avoid contact with skin and eyes. Avoid breathing vapors or mists of this product. Wash thoroughly after handling.

As with all chemicals, good industrial hygiene practices should be followed when handling this material.

Storage Procedures

Do not handle or store near an open flame, heat or other sources of ignition. Keep the container tightly closed and in a cool, well-ventilated place. Avoid freezing or excessive heat.

MATERIAL SAFETY DATA SHEET— PUR-SOL**EXPOSURE CONTROLS / PERSONAL PROTECTION****Engineering Controls**

Use local exhaust ventilation.

Personal Protective Equipment: Eyes/Face

Wear chemical goggles; face shield (if splashing is possible).

Personal Protective Equipment: Skin

Wear suitable protective clothing. Use impervious gloves.

Personal Protective Equipment: Respiratory

If vapors are present or irritation is experienced, NIOSH approved respiratory protection for organic vapors should be worn.

Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended.

PHYSICAL & CHEMICAL PROPERTIES

Flash Point (61.7 – 62.8°C), 143 – 145°F

Boiling Point (164 - 165°C), 327.2 - 329°F

Specific Gravity (0.947 g/ml), 7.88 lb/gal @ 25°C

Vapor Density Estimated heavier than air.

Viscosity <100 cps @ 25°C

Evaporation Rate Estimated slower than ethyl ether.

VOC 53%

Pour Point 25 – 27°F

Appearance and Odor Clear liquid, yellow color. Sharp, pungent odor.

STABILITY & REACTIVITY

Chemical Stability Stable under normal conditions.

Incompatibility This product may react with strong oxidizing agents, alkalies.

Hazardous Decomposition Methanol may be evolved if hydrolyzed or saponified.

Hazardous Polymerization Will not occur.

TOXICOLOGICAL INFORMATION

Carcinogenicity Not listed as carcinogenic according to IARC, NTP or OSHA.

Mutagenicity This product class is non-mutagenic.

LD50 Value Oral LD50 (rat) = >5000 – 15,000 mg/kg Dermal LD50 (rabbit) = >2,000 < or equal to 20,000 mg/kg

Ethyl Lactate 97-64-3

Toxicology Data – Selected LD50s and LC50s

Oral LD50 Rat: > 5 g/kg; Dermal LD50 Rabbit: > 5 g/kg

MATERIAL SAFETY DATA SHEET— PUR-SOL**ECOLOGICAL INFORMATION**

Ecotoxicity No data available on finished product.
Environmental Fate This product is biodegradable.

DISPOSAL CONSIDERATIONS**Disposal Instructions**

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial and Local regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

TRANSPORT INFORMATION

DOT Proper Shipping Name Refer to bill of lading or container label for DOT or other transportation hazard classification, if any.

REGULATORY INFORMATION

Ingredient Name	CAS Number	Weight Range
Methyl ester, soybean oil	67784-80-9	40-70%
Ethyl lactate	97-64-3	40-70%

Inventories

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL), Europe (EINECS/ELINCS/Polymer/NLP), Korea (ECL), Australia (AICS).

There is no calculable reportable quantity (RQ) for this product.

OTHER INFORMATION**Disclaimer**

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Hazard Ratings	HMIS	NFPA
Health	1	1
Flammability	2	2
Reactivity	0	0
PPE	X	