



# MATERIAL SAFETY DATA SHEET

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Effective Date: 6/29/05 Supercedes: 5/10/04

Emergency #: 405-745-2070

## SECTION I. IDENTIFICATION

PRODUCT NAME: **CONCRETE SURFACE TREATMENT  
LINSEED WATER REPELLENT**

CHEMICAL NAME & SYNONYMS: Water Repellent / Mineral Spirits Based Mixture of Modified Linseed Oil

PROCESSORS NAME: Chemical Products Industries, Inc., 7649 Southwest 34th Street,  
Oklahoma City, OK 73179, (800) 624-4356

CAS #: Not Issued

CHEMICAL FAMILY: Petroleum Hydrocarbon Naphtha Solution of Modified Linseed Oil

CHEMICAL FORMULA: C8 to C12 Naphtha solution of oxygen, carbon and hydrogen containing  
chemical compounds.

## SECTION II. COMPONENTS

<u>INGREDIENTS</u>	<u>CAS NUMBER</u>	<u>% BY WT*</u>
- Refined Linseed Oil	8001-26-1	<60%
- Mineral Spirits	64742-88-7	Balance

\* The concentrations shown in the substance list are maximum or ceiling levels (weight %) to be used for calculations for regulations.

## SECTION III. HEALTH HAZARDS

NFPA 704 CODES: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious and 4=Severe

<u>HEALTH (BLUE)</u>	<u>FLAMMABILITY (RED)</u>	<u>REACTIVITY (YELLOW)</u>	<u>CLOTHING</u>
NFPA: 0	NFPA: 2	NFPA: 1	NFPA:
HMIS: 1	HMIS: 2	HMIS: 1	HMIS: PP = B

### ACUTE EFFECTS OF OVEREXPOSURE:

- INHALATION: Headache, nasal and respiratory irritation, nausea, drowsiness, breathlessness, fatigue, central nervous system depression, convulsions and loss of consciousness.
- EYE: Mildly irritating to the eyes.
- INGESTION: Aspiration hazard, headache, nausea, drowsiness, fatigue, pneumonitis, pulmonary edema, central nervous system depression, convulsions, and loss of consciousness.
- SKIN: Irritation. May aggravate existing dermatitis.

CHRONIC EFFECTS OF OVEREXPOSURE: Affects the central nervous system, eye and skin irritation.

OTHER HEALTH EFFECTS (MEDICAL CONDITIONS GENERALLY AGGREGATED BY EXPOSURE): May cause liver or kidney damage.

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#### SECTION IV. FIRST AID MEASURES

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##### EMERGENCY FIRST AID PROCEDURES:

- INHALATION: Remove to fresh air. If breathing has stopped perform artificial respiration and get medical attention as soon as possible.
- EYE: Immediately flush eyes with running water for at least 15 minutes. If irritation or adverse symptoms develop, seek medical attention.
- INGESTION: Call a physician immediately. Do not induce vomiting unless instructed by physician.
- SKIN: Remove with clean cloth, wash with soap and water. If irritation or adverse symptoms continue, seek medical attention.

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#### SECTION V. FIRE AND EXPLOSION HAZARD DATA

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Caution **LINSEED WATER REPELLENT** is a flammable/combustible liquids and is primarily a fire hazard. Keep away from heat and flame. Vapor can mix with air forming combustible mixtures. The solvent's flash point is <140 F with an autoignition temperature of 540 F. The lower flammability limit is 0.7 percent and the upper is 6 percent. Carbon dioxide, dry chemical and foam are recommended extinguishing media. Water will tend to spread fire. Heated closed containers may burst due to internal pressure. Cool containers with water. If leak or spill has not ignited, use water spray to disperse the vapor. Vapor is heavier than air and may travel along the ground to ignition sources.

Fire fighters should wear self-contained breathing apparatus operated in positive pressure demand mode and full protective clothing. Air oxidation of this product may cause it to spontaneously ignite. To avoid spontaneous combustion, soak soiled rags, spray booth filters and overspray wastes in water-filled metal containers

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#### SECTION VI. SPILL, LEAK & DISPOSAL PROCEDURES

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Notify emergency response personnel. Evacuate area and remove ignition sources. Contain spills immediately with inert material to prevent waterway entry. Transfer liquids and solid diking materials to suitable containers for recovery or disposal. Do not flush to sewer or open water.

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#### SECTION VII. HANDLING AND STORAGE

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Caution fire hazard. Avoid inhaling vapors and mists, and getting in eyes, on skin or on clothing. Handle and store in a well ventilated area. Maintain positive pressure in interior of occupied buildings during exterior application and close fresh air intakes in area of application. Wash hands and other contaminated areas thoroughly with soap and water after handling this product and before eating or smoking. Wash contaminated clothing thoroughly before reuse.

Store as OSHA Class II combustible liquid. Do not store with strong oxidizers. Storage temperature should be below 100°F. Drain equipment and flush with mineral spirits to clean. Shelf life is 18 months in original sealed container. The mineral spirits in the product will dissolve asphalt and similar organic materials.

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#### SECTION VIII. PERSONAL PROTECTION

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Appropriate personal protective equipment necessary to prevent contact should be worn. Ventilation that keeps the organic vapor concentration below 100 ppm is recommended. For concentrations up to 1,000 ppm, wear a NIOSH/MSHA approved respirator in accordance with OSHA standard 29 CFR 1910, 134 for organic vapors. Up to 5,000 ppm, wear a full-face organic vapor respirator or full face supplied air respirator. Greater than 5,000 ppm, fire fighting or unknown concentrations, wear self-contained breathing apparatus with positive pressure. Eye protection, resistant clothing and resistant boots should be worn where spills or splashing can occur. Chemical proof goggles are recommended. Gloves of impervious materials (nitrile, neoprene or other material resistant to naphtha) are recommended. Wash contaminated clothing before reuse. An eye wash station should be available.

## SECTION IX. - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
APPEARANCE:	Clear, Light Yellow
ODOR:	Low Odor
BOILING POINT, 760 mm Hg:	N/A
VAPOR PRESSURE, at 100 F:	0.3 psia
VAPOR DENSITY (Air = 1):	5
LIQUID DENSITY :	0.83 g/cc
SOLUBILITY IN WATER, by wt.:	Negligible
PERCENT VOLATILE BY VOLUME:	100%
PERCENT VOLATILE BY WEIGHT:	<100 %
LIQUID VISCOSITY:	1 centistroke at 100 F
EVAPORATION RATE (Ethyl Ether = 1)	8 times slower than Ethyl Ether.

## SECTION X. STABILITY AND REACTIVITY

The mineral spirits will evaporate. Avoid breathing the vapor. Under severe thermal degradation, carbon monoxide and low molecular weight organic compounds may be formed. The hazards, if any, are not known for these thermal degradation products.

## SECTION XI. TOXICOLOGICAL INFORMATION

The mineral spirits are combustible, and have acute and chronic health hazards. The OSHA PEL and ACGIH TLV is 100 ppm for the mineral spirits. The solvent vapors are harmful if inhaled and may cause delayed lung injury. In a confined area, the high vapor pressure of the solvent can generate harmful concentrations. Inhalation can cause nervous system depression. The solvent is an aspiration hazard if swallowed - it can enter the lungs and cause damage.

HEALTH HAZARD CATEGORIES: None of the product's ingredients are found on any lists of carcinogenic or banned chemical agents or materials generated by them.

## SECTION XII. ECOLOGICAL INFORMATION

Do not allow **LINSEED WATER REPELLENT** to enter soil or drains.

## SECTION XIII. DISPOSAL CONSIDERATIONS

Small quantities may be handled by evaporating the solvent in a hood and then the remaining material disposed in appropriate land fills. Disposal of large quantities should be through a licensed disposal company. Utilize a permitted hazardous waste disposal site or industrial waste disposal site as appropriate. Consider recycling or incineration.

## SECTION XIV. TRANSPORT INFORMATION

- DOT SHIPPING NAME (49CFR 172.101):	Petroleum products n.o.s. (mineral spirits, siloxane)
- DOT HAZARD CLASS:	3
- DOT ID# (49CFR 172.101):	1268
- PACKING GROUP:	III
- MARKING:	Flammable Liquid
- LABEL:	Flammable Liquid
- PLACARD:	Yes
- HAZARD ( 29 CFR 1910.1200):	Flammable

## SECTION XV. REGULATORY INFORMATION

### FEDERAL

This mineral spirits contain up to 1 weight percent of each Xylene (CAS # 1330-20-7) and 1,2,4 Trimethylbenzene. This product is a combustible material under the OSHA Hazard Communication Standard (29 CFR 1910-1200). This product is hazardous under EPA regulations.

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**SECTION XVI. OTHER INFORMATION**

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APPROVED BY: \_\_\_\_\_  
Floyd E. Farha, Ph.D.

DATE: 6/29/05  
SUPERCEDES: 5/10/04

All terms and abbreviations have been defined in various government publications, or are standard chemical terms used by IUPAC.

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