

**PS-1 -- PATTERN SPRAY**

**Section 1. Supplier Information**

**CMI Chemical Corporation**  
12336 Emerson Drive  
Brighton, MI 48116  
(248) 587-5600  
**Emergency Telephone: 1-800-424-9300**

**Section 2. Hazardous Ingredients**

<u>Hazardous Component(s)</u>	<u>CAS #</u>	<u>PEL TWA</u>	<u>PEL Ceiling</u>	<u>TLV TWA</u>	<u>TLV STEL</u>	<u>MFG Limits</u>	<u>WGT %</u>
Oleic acid	112-80-1	N/E	N/E	N/E	N/E	N/E	< 10
Hydrotreated middle distillate	64742-46-7	5 mg/m3	N/E	5 mg/m3*	10 mg/m	100 mg/	> 90

N/A = Not Applicable; N/E = Not Established; \* = Mists; # = Skin; ' = Respirable Dust; " = Total Dust; ^ = Vapor; \*\* = Fumes; C = Ceiling Limit

All components of this product are listed on the Toxic Substances Control Act (TSCA) Inventory and the Canadian Domestic Substances List (DSL), or are exempt from the listing.

**Section 3. Hazards Identification**

**Primary Routes of Entry**

Inhalation: YES  
Skin: YES  
Ingestion: NO

**Hazardous Materials Information System (HMIS) Ratings**

Health: 2  
Fire: 2  
Reactivity: 0  
0 = Minimal  
1 = Slight  
2 = Moderate  
3 = Serious  
4 = Severe  
\* = Chronic Hazard

**Signs of Symptoms of Exposure:**

**INHALATION:** Vapors are irritating to the nose, throat, and respiratory tract, and may produce headache and nausea in areas of poor ventilation.

**SKIN:** Material is mildly irritating to the skin. Prolonged or repeated contact may cause defatting and drying of the skin, resulting in irritation and dermatitis.

**EYES:** Minimally irritating to the eyes. High vapor concentrations may be irritating.

**INGESTION:** Ingestion of this product may result in vomiting. Aspiration (breathing) of vomitus into the lungs must be avoided, as even small quantities may result in aspiration pneumonitis.

**Chemical Listed as Potential Carcinogens:**

NTP: NO

IARC: NO

OSHA: NO

Target Organs: Eyes, skin, and respiratory system.

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**Section 4. Emergency And First Aid Procedures**

**INHALATION:** If adverse effects such as dizziness, nausea, or irritation are noted, move person to fresh air. If not breathing, give artificial respiration. Get medical attention!

**SKIN:** Immediately wash skin with large amounts of soap and water. Remove contaminated clothing and shoes; wash before reuse. Get medical attention if irritation persists after washing.

**EYES:** Flush eyes immediately with water for at least 15 minutes. If irritation persists, call a physician.

**INGESTION:** DO NOT INDUCE VOMITING! Contact a physician immediately!

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**Section 5. Fire Fighting Measures**

Flash Point: 270 ° F (typical) Method Used: Pensky-Martens Closed Cup

Flammable Limits in Air % by Volume: LEL: N/E UEL: N/E

Extinguisher Media: Foam, dry chemical, or carbon dioxide.

Special Fire Fighting Procedures: Wear a self-contained breathing apparatus when fighting fire in an enclosed area.

Unusual Fire And Explosion Hazards: Low fire hazard when exposed to heat and flame. Product is not flammable or combustible.

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**Section 6. Accidental Release Measures**

If material is spilled, evacuate the area, ventilate, and avoid breathing vapors. Dike area to contain spill. Clean up area by mopping or with absorbent material and place in closed containers for disposal. Avoid contamination of ground and surface waters. Do not flush to sewer. If spill occurs indoors, turn off air conditioning and/or heating systems, to prevent vapors from contaminating entire building.

CERCLA (Superfund) Reportable Quantity (in lbs None).

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**Section 7. Handling and Storage**

**Handling:** Avoid contact with skin and eyes; wash thoroughly after handling. Avoid breathing vapor; use with adequate ventilation.

**Storage:** Store in a dry location at room temperature. Keep container closed and maintain all original markings and labels.

**Other:** Do not reuse container without recycling or reconditioning. Handle empty containers as if they were full.

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**Section 8. Exposure Controls and Personal Protection**

**Respiratory Protection:** Use NIOSH / MSHA approved respirator where high vapor or mist concentrations are present.

**Local Exhaust:** Special ventilation is suggested at points where vapors can be expected to escape to the workplace air.

**Mechanical Exhaust:** Mechanical ventilation should be sufficient to maintain exposure levels below exposure limits.

**Protective Gloves:** Wear chemical resistant gloves.

**Eye Protection:** Safety glasses with side shields. Do NOT wear contact lenses. Chemical goggles and/or faceshield should be worn where splashing is possible.

**Other Protection:** Eye wash and safety shower should be readily available. Wear a chemical resistant apron and boots where splashing is possible.

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Hygienic Practices: Protective equipment and clothing should be selected, used and maintained according to applicable standards and regulations. For further information, contact the clothing or equipment manufacturer. Do not eat, drink, or smoke while using this product. Wash hands prior to eating, drinking, smoking, or using restrooms. Cleanse skin thoroughly after contact, before breaks and meals, and at the end of the work shift.

**Section 9. Physical and Chemical Properties**

Boiling Point:	374 ° F (initial)	Degree of water solubility:
Specific Gravity (H <sub>2</sub> O=1):	0.83-0.86	Negligible = Less than 0.1%
Vapor Pressure (mm Hg):	< 1	Slight = 0.1% - 1%
Vapor Density (air=1)	6-10	Moderate = 1% - 10%
Solubility in Water:	Negligible.	Appreciable = More than 10%
Reactivity in Water:	None.	Complete = 100%
Weight per Gallon (lb/gal):	6.9 - 7.2 lbs/gal	
% Volatile by Volume:	100%	
% Solid by Weight:	0 %	
Appearance and Odor:	Clear, colorless to light amber liquid with a mild odor.	
Theoretical VOC: (>0.1 mm Hg @ 20 ° C)	0 lbs/gal	
Analytical VOC : (EPA method 24)	2.9 - 3.2 lbs/gal	
pH:	N/A, product is solvent based.	

**Section 10. Stability and Reactivity**

Stability: Stable. Hazard Polymerization: Will not occur.

Conditions to Avoid: Keep from heat, sparks, or open flame.

Incompatibility (Materials to Avoid): Strong oxidizers.

Hazardous Decomposition Products: Various decomposition products and oxides of carbon.

**Section 11. Toxicological Information**

Oleic acid [CASRN 000112-80-1]

ACUTE ORAL TOXICITY: Classified as 'slightly toxic' by ingestion.

Eye contact: Material is nonirritating in rabbit eye irritation studies; no irritation is likely to occur after human eye contact.

Skin contact: Material is nonirritating in rabbit dermal irritation studies. No irritation is likely to develop following contact with human skin. Material was not a skin sensitizer in animal testing. the potential is low for developing sensitization following contact with human skin. [20,13-15,G,J,D,D-021401]

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Hydrotreated Middle Distillate [CASRN 064742-46-7]

ACUTE HEALTH HAZARDS: Practically non-toxic. May cause nausea, vomiting, and diarrhea.

CHRONIC HEALTH HAZARDS: Dermatitis, pneumonitis and pulmonary edema. According to IARC Monographs, severely hydrotreated oils, such as this product, are not considered carcinogenic.

SIGNS & SYMPTOMS: Headache, drowsiness, eye, respiratory or skin irritation, nausea, numbness. [19,15-19,7,3,5,D,A,A-010194]

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**Section 12. Ecological Information**

Oleic acid [CASRN 000112-80-1]

DEGRADABILITY Readily biodegradable (according to the modified Sturm test). [20,13-15,G,J,D,D-021401]

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**Section 13. Disposal Considerations**

Waste Disposal Methods (Federal, State, Local):

In accordance with all federal, state and local requirements.

RCRA Hazardous Waste Number: N/A

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**Section 14. Transport Information**

Hazardous Material Description:

(Proper shipping name, hazard class, hazard ID#, packing group)

Domestic ground non-bulk: NOT REGULATED

Domestic ground bulk: NOT REGULATED

International: NOT REGULATED

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**Section 15. Regulatory Information**

SARA 313 Information This product contains the following chemical(s) above de minimis concentrations and may be subject to reporting under section 313:

None.

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**Section 16. Other Information**

This MSDS contains revisions in the following sections: New format

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Revised by: Andrew J. Thomas Chemist

The development of this Material Safety Data Sheet (MSDS) relies upon information provided to us by each of our raw material suppliers. This MSDS will be updated as changes occur to their MSDS(s).

We believe the recommendations and technical information contained herein to be accurate. However, they are given without warranty or guarantee, expressed or implied, and we assume no responsibility for losses or damage, direct or indirect, as a result of their use.