

# TRICARD

TRIANGLE CHEMICAL COMPANY – P.O. BOX 4528, MACON, GEORGIA 31213  
CARDINAL CHEMICALS, INC. – KINSTON, NC

IN CASE OF EMERGENCY, CALL CHEMTREC  
UNITED STATES: 1-800-424-9300  
INTERNATIONAL: 1-202-483-7616

## MATERIAL SAFETY DATA

### 1. PRODUCT IDENTIFICATION

PRODUCT NAME: **MSO Plus**  
SYNONYMS: Methylated Soybean Oil with Silicone Surfactant  
CHEMICAL FAMILY: Fatty Ester  
SHIPPING NAME: NA -Class 60 -NMFC 4610

### 2. HAZARDOUS INGREDIENTS

COMPONENT	CAS. NO.	%	TWA/CEILING	REFERENCE
Poly-Oxyalkalene Ether Copolymer	67762-85-0			

Maximum of 1 ppm Ethylene Oxide (EO) (75-21-8) may be present in the product.  
The OSHA PEL and ACGIH TLV for EO is 1 ppm.

### 3. EFFECTS OF OVEREXPOSURE:

EYE: Causes eye irritation.  
SKIN: Harmful if absorbed through skin.  
INGESTION: Harmful if swallowed.  
INHALATION: Unknown.  
OTHER EFFECTS: Ethylene Oxide has been determined to be a cancer and reproductive hazard. The trace levels of EO in this product are not expected to result in acute or long-term hazards when handled according to the precautions in this MSDS. However, they may accumulate in head space of storage and transport vessels.

### 4. EMERGENCY FIRST AID

**Call a poison control center or doctor immediately for treatment advice.**

IF SWALLOWED: Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if present, after the first 5 minutes, then continue rinsing eye. Have the product container with you when calling a poison control center or doctor, or going for treatment.

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## 5. REACTIVITY DATA

STABILITY:	Stable.
CONDITIONS TO AVOID:	Prolonged excessive heat.
POLYMERIZATION:	Will not occur.
INCOMPATIBILITY:	Strong acids, gases, and oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS:	CO <sub>2</sub> , CO.

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## 6. NFPA HAZARD RATING (National Fire Protection Association)

Flammability 1	Health: 1	Exposure could cause irritation but only minor residual injury even if no treatment is given.
Instability 0	Flammability: 1	Must be preheated before ignition can occur.
Special Hazard -	Instability: 0	Normally stable, even under fire exposure conditions, and are not reactive with water.

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## 7. PHYSICAL PROPERTIES

APPEARANCE AND ODOR:	Clear pale yellow liquid, fatty odor.
BOILING POINT:	Over 200 °F
MELTING POINT:	NA
VAPOR PRESSURE (mmg of Hg):	less than 1mm
SPECIFIC GRAVITY:	.915 (+/- .05)
VAPOR DENSITY (AIR=1):	NA
% VOLATILE (BY WGT.%):	NA
EVAPORATION RATE (Ether=1):	Not applicable

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## 8. FIRE AND EXPLOSION HAZARD INFORMATION

FLASHPOINT:	>200 °F.
FLAMMABLE LIMITS:	Not Available.
EXTINGUISHING MEDIA:	Foam, Dry Chemical, CO <sub>2</sub> , and Water.
FIRE FIGHTING:	Use a positive-pressure, self-contained air supply. Avoid getting water from fire-fighting into domestic or irrigation water supplies.

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## 9. SPECIAL PRECAUTIONS

HANDLING AND STORAGE:	Do not contaminate water, food or feed by storage or disposal. Do not store near heat or open flame. Store in original container.
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## 10. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:	None required for normal use.
VENTILATION:	Normal room ventilation (mechanical) should be satisfactory.
PROTECTIVE GLOVES:	PVC-coated.
EYE PROTECTION:	Safety goggles.

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## 11. SPILL OR LEAK PROCEDURES

- SPILLS OR RELEASES: Material should be collected and disposed in proper manner. Avoid discharge to natural waters. Absorb with an inert material such as sand, soil or vermiculite. Wear suitable protective equipment.
- WASTE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Dispose of in an approved waste disposal facility in accordance with all Federal, State and Local Regulations.
- CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration.

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## 12. REGULATORY INFORMATION

### COMPOUNDS WHICH REQUIRE REPORTING UNDER SARA TITLE III

CHEMICAL	CAS NO.	% Wt.
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No compounds present in quantities which are regulated.

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The recommendation for safe handling and protection procedures is believed to be generally suitable for the standard uses of this compound. However, each user should identify his intended uses of this material and determine whether they are appropriate. All data included in this document is released as typical values and should not be utilized to determine the suitability of this material for a particular use or purpose. No warranty, either expressed or implied, is hereby made, nor do we give permission, inducement, or recommendations to practice any patented invention without a license. All data is offered for consideration, investigation and verification purposes only.