SAFETY DATA SHEET

TriCard MSO 100

Section 1: Material Identification

Product Name: TriCard MSO 100

GHS product identifier: Methylated seed oil / surfactant blend

Company:
Triangle Chemical Company
PO Box 4528, Macon, GA 31208

Cardinal Chemicals, Inc.
1583 US 258, Kinston NC 28504

Recommended use: Spray adjuvant

Recommended restrictions: None available

Synonyms: MSO

Emergency Telephone Number:

Triangle Chemical Company	Cardinal Chemicals, Inc.
478-743-1548	252-523-1181

Section 2: Hazard Identification

GHS classification:

Health hazards:

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2B
Acute toxicity	Category 4

GHS label elements:

Signal word: WARNING

Hazard statement:
Causes eye irritation
Causes mild skin irritation
May be harmful if swallowed

Precautionary statement:

Prevention:
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear eye protection, face protection, protective clothing, protective gloves.

Response: If skin irritation occurs get medical advice/attention. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical advice/attention. **IF ON SKIN OR CLOTHING:** Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. **IF SWALLOWED:** Call poison center or doctor/physician if you feel unwell.

Storage: Store in closed container.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Specific hazards: None available

Section 3: Composition Information

Components	CAS No.	Percent
Methylated seed oil / Surfactant Blend	N/A	100.00

Section 4: First-Aid Measures

Eye Contact: Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Call poison control center or doctor for treatment advice.

Skin Contact: Immediately flush skin with water while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse.

Inhalation: Move person to fresh air; If not breathing call 911 and give artificial respiration. Call poison control center or doctor for treatment advice.

Ingestion: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Section 5: Fire Fighting Measures

Suitable extinguishing media: Foam solution, CO_2, dry chemical, water spray, halon

Specific hazards arising from the chemical: Can be dangerous when exposed to extreme heat and flame. Do not breathe mist/vapors/spray.

Protective equipment and precautions for firefighters: Assure self-contained breathing apparatus is worn. Fight fire from upwind. Prevent runoff if possible.

Section 6: Accidental Release Measures

Personal Precautions: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. Keep upwind of spill. Spilled material may cause a slipping hazard. Ventilate area of leak or spill. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment: Stop the flow of material, if this is without risk. Collect and dispose of spillage as indicated in section 13. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up: Pick up spills with absorbent material and place in suitable properly labeled containers.

Section 7: Handling and Storage

Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

Storage: Store in a dry place. Store in original container. Do not store near food, foodstuffs, drugs or potable water supplies.

Section 8: Exposure Controls / Personal Protection

Occupational exposure limits:

Engineering controls: Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

Personal protective equipment:

Eye/Face Protection: Use chemical goggles

Skin Protection: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. Safety shower should be located in immediate work area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly.

Hand protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Neoprene, Nitrile/butadiene rubber (“nitrile” or “NBR”), or Polyvinyl chloride (“PVC” or “vinyl”).

Respiratory Protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material.

Section 9: Physical and Chemical Properties

Physical state:	Liquid
Color:	Yellow to amber
Form:	Liquid
Odor:	Ester odor
Odor threshold:	Not available
pH:	6.0 – 8.0
Melting/freezing point:	32°F
Boiling point:	275°F

Flash point:	>200°F
Evaporation rate:	Not available
Flammability:	Not available
Flammability limits in air, lower:	Not available
Flammability limits in air, upper:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	0.88 – 0.92 g/mL
Solubility:	Emulsifies in water
Octanol/water coefficient:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

Section 10: Stability and Reactivity

Chemical stability/instability:	Stable at typical use temperatures
Conditions to avoid:	Avoid extreme temperatures and open flames
Incompatible materials:	Strong oxidizers
Possibility of hazardous reactions:	Will not occur
Hazardous decomposition products:	Oxides of carbon

Section 11: Toxicological Information

Toxicology data:

Components:	**Test results:**	
Methylated seed oil and	Acute oral LD_{50} (rat):	>5000 mg/kg
Surfactant blend	Acute dermal LD_{50} (rabbit):	>5000 mg/kg

Routes of exposure:	Skin contact, eye contact, ingestion
Acute effects:	Mild skin irritation. Eye irritation. May be harmful if swallowed.
Sensitization:	No data available
Chronic effects:	No data available
Carcinogenicity:	No data available
Mutagenicity:	Non-mutagenic for bacteria and/or yeast
Reproductive effects:	No data available
Tetragenicity:	No data available
Epidemiology:	No data available
Skin corrosion/irritation:	Causes mild skin irritation
Serious eye damage/eye irritation:	Causes eye irritation
Specific target organ toxicity-single exposure:	Not classified
Specific target organ toxicity-repeated exposure:	Not classified
Other information:	Not available

Section 12: Ecological Information

Ecotoxicological data:

Components:	**Test results:**	
Methylated seed oil and Surfactant blend	LC_{50} Algae:	No data available
	EC_{50} Daphnia:	No data available
	LC_{50} Fish:	No data available

Persistence and degradability: Not established

Bioaccumulation: Not established

Mobility in soil: Not available

Other adverse effects: Avoid release to open bodies of water

Section 13: Disposal Considerations

Disposal methods: Dispose of in accordance with label instructions and all applicable regulations.

Contaminated packaging: Dispose of in accordance with applicable federal, state and local regulations.

Section 14: Transport Information

In accordance with ICAO/IATA/DOT/TDG:

UN number: Not regulated

UN proper shipping name: Agricultural spray adjuvant, liquid, N.O.S

Transport hazard classes: Not regulated

Packing group: Not regulated

Environmental hazards: Not regulated

Transport in bulk: Not regulated

Special precautions: Not available

Section 15: Regulatory Information

International inventories:

TSCA:	Complies
EINECS/ELINCS:	Complies
ENCS:	Complies
IECSC:	Complies
KECL:	Complies
PICCS:	Complies
AICS:	Complies

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312:

Immediate (Acute) Health Hazard:	Yes
Delayed (Chronic) Health Hazard:	No
Fire Hazard:	No
Reactive Hazard:	No
Sudden Release of Pressure Hazard:	No

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313:

- This product contains the following substances which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and which are listed in 40 CFR 372.

Component	CAS #	Weight (%)	SARA 313- Threshold values (%)
No components			

Section 16: Other Information

Disclaimer: **Triangle Chemical Company and Cardinal Chemicals recommend that each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown below. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific SDSs, we are not and cannot be responsible for SDSs obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.**

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