



SAFETY DATA SHEET Chemurgic's MVO Concentrate

SECTION 1: IDENTIFICATION

Product Name: Chemurgic's MVO Concentrate
Common Name: Surfactant (Adjuvant).
Chemical Description: Liquid mixture of methyl soyate and surfactants.
TSCA/CAS No.: This product is a mixture — there is no specific CAS number.

Company Name: Chemurgic Agricultural Chemicals, Inc.
Address: P.O. Box 2106
Turlock, CA 95381
Phone Number: DAYS: (209) 634-2951 EVES: (209) 652-7260
Email: info@chemurgic.net

Emergency Phone Numbers: EPA National Response Center: (800) 424-8802
INFOTRAC: (800) 535-5053

SECTION 2: HAZARDS IDENTIFICATION

Hazard Classifications:

Acute oral toxicity: Category 5
Acute dermal toxicity: Category 5
Acute inhalation toxicity: Category 4
Skin corrosion/irritation: Category 3
Eye damage/irritation: Category 2B

Signal Word: WARNING

Pictograms:



Hazard Statements:

H303: May be harmful if swallowed.
H313: May be harmful in contact with skin.
H332: Harmful if inhaled.
H316: Causes mild skin irritation.
H320: Causes eye irritation.

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Precautionary Statements:

- Call a POISON CENTER/doctor if you feel unwell.
- Avoid breathing mist/spray.
- Use only outdoors or in a well-ventilated area.
- Wash hands thoroughly after handling.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor if you feel unwell.
- 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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients	CAS No.	Percent by Weight
Methylated vegetable oil, Alcohol ethoxylate	*Mixture	100%

*Trade Secret Proprietary Mixture

SECTION 4: FIRST AID MEASURES

- IF IN EYES: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- IF ON SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control center or doctor for treatment advice.
- IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably by mouth to mouth if possible.
- IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.

Have the product container or label with you when call a poison control center or doctor, or going for treatment.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point:	Not available.
Test Method:	Not available.
Flammable Limits (LEL and UEL):	Not available.
Autoignition Temperature:	Not available.
Flammability Classification:	Nonflammable.
Known Hazardous Products of Combustion:	None.
Properties that Initiate/Contribute to Intensity of Fire:	None.
Potential for Dust Explosion:	None.

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Reactions that Release Flammable Gases or Vapors:	Not known.
Potential For Release of Flammable Vapors:	None.
Unusual Fire & Explosion Hazards:	Burning may result in formation of carbon oxides.
Extinguishing Media:	Foam, CO ₂ , dry chemical, water.
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus and goggles. Avoid smoke inhalation. Contain any liquid runoff.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Containment:	Prevent product spillage from entering drinking water supplies or streams.
Clean Up:	Collect liquid or absorb onto absorbent material and package for disposal.
Evacuation:	Not necessary.

SECTION 7: HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, smoking tobacco, or using the toilet.
Storage:	Store in plastic or stainless steel container in a cool, well-ventilated, dry place at temperatures between 40°F and 120°F. Do not store near food or feeds. Do not stack pallets more than two (2) high. Do not contaminate water, food or feed by storage or disposal.
Transfer Equipment:	Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:	Not required, but use of chemical dust/splash goggles or full-face shield to prevent eye contact is recommended. As a general rule, do not wear contact lenses when handling.	
Skin:	Wear chemical-resistant gloves, long-sleeved shirt and pants, and shoes plus socks. Remove and wash contaminated clothing before reuse.	
Respiratory:	Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8710).	
Ventilation:	Use in a well-ventilated area. Local exhaust may be required if working in confined spaces.	
For Product:	OSHA/PEL: not established	ACGIH/TLV: not established

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, amber liquid.
Odor:	Vegetable oil odor.
pH:	5.0 – 7.0
Vapor Pressure:	Not determined.
Vapor Density (Air= 1):	Not determined.
Boiling Point:	Not determined.
Freezing Point:	Not determined.
Water Solubility:	Forms emulsion.
Density:	7.5 lbs./gal.
Evaporation Rate:	Not determined.
Viscosity:	9 cPoise
% Volatile:	0.
Octanol/Water Partition Coefficient:	Not determined.
Saturated Vapor Concentration:	Not determined.

SECTION 10: STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Avoid contact with strong oxidizers such as hydrogen peroxide, bromine and chromic acid.
Incompatibility:	Not determined.
Hazardous Decomposition Products:	Burning may result in formation of carbon oxides.
Hazardous Polymerization:	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies:

Acute Oral LD ₅₀ (rat):	5000 mg/kg
Acute Dermal LD ₅₀ (rat):	>4000 mg/kg
Acute Inhalation LC ₅₀ (rat):	>2.01 mg/L (4 HR)
Skin Irritation (rabbit):	Minimal irritant
Eye Irritation (rabbit):	Minimal irritant
Skin Sensitization (guinea pig):	Not a sensitizer
Subchronic Effects:	None known.
Chronic Effects:	None known.
Germ Cell Mutagenicity:	Not available.
Carcinogenicity:	None listed in OSHA, NTP, IARC or ACGIH
Reproductive Toxicity:	Not available.
STOT-single exposure:	Not available.
STOT-repeated exposure:	Not available.
Aspiration Hazard:	None known.

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SECTION 12: ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition:	Not known.
Toxicity to Fish and Invertebrates:	Not known.
Toxicity to Plants:	Not known.
Toxicity in Birds:	Not known.

13. DISPOSAL CONSIDERATIONS

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents in accordance with state and local regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this SDS. Therefore, consult local waste regulators for proper disposal.

14. TRANSPORT INFORMATION

D.O.T. Proper Shipping Description:	Not D.O.T. Regulated.
OTHER Shipping Information:	Adhesives, Adjuvants, Spreaders or Stickers, Liquid. NMFC Item 4612, LTL Class 60

15. REGULATORY INFORMATION

CERCLA:	None.
SARA TITLE III, Section 313 Toxic Chemicals:	None.
PROPOSITION 65 (CA):	None.

Health: 1 Reactivity: 0 Flammability: 0 Environment: 0
(0=insignificant, 1=slight, 2=moderate, 3=high, 4=extreme)

16. OTHER INFORMATION

While the information contained herein is based on data considered accurate and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act, it is provided for guidance only. Chemurgic Agricultural Chemicals, Inc. does not guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/ or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations; in so doing, user assumes all risk in use of the material. The information contained herein is not to be taken as a warranty or representation for which Chemurgic Agricultural Chemicals, Inc. assumes legal responsibility.

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