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*The Best People. The Best Products.
The Best Service.*

MATERIAL SAFETY DATA SHEET NO. 435

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	First Choice® Solar™
California Registration Number	11656-50100-AA
Chemical Family	Fatty ester
Common Name, Synonyms	Methylated seed oil with organosilicone
MANUFACTURED FOR	Western Farm Service, Inc.
EMERGENCY TELEPHONE NUMBERS	Information (559) 436-2800 8am-5pm PST M-F CHEMTREC (800) 424-9300 24 hours every day

2. COMPOSITION/INFORMATION ON INGREDIENTS

A proprietary blend of polyalkyleneoxide modified polydimethylsiloxane nonionic emulsifiers and methylated vegetable oil. A maximum of 1 ppm ethylene oxide may be present in the product.

<u>Chemical Name</u>	<u>CAS#</u>	
Ethylene oxide	75-21-8	Refer to Section 8 for exposure guidelines

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear, pale yellow liquid. Fatty odor

WARNING! This product may contain a detectable amount of ethylene oxide

Direct eye contact can cause burns.
Prolonged skin contact may cause irritation
May irritate nose, throat, and respiratory tract

3. HAZARDS IDENTIFICATION (con't)

PRIMARY ROUTE(S) OF ENTRY	Skin or eye contact is the most likely exposure. Inhalation or ingestion is possible
TARGET ORGANS	Eyes, skin, respiratory tract
POTENTIAL HEALTH EFFECTS	
Eyes	May cause eye irritation. Direct contact with eye can cause burns.
Skin	Prolonged contact with skin may cause irritation.
Inhalation	May cause irritation to nose, throat and respiratory tract.
Ingestion	Ingesting this product may cause nausea, vomiting, diarrhea, and abdominal discomfort.
SYMPTOMS OF OVEREXPOSURE	
Acute	Refer to potential health effects above.
Chronic	Repeated or prolonged contact with irritants may cause conjunctivitis or dermatitis.
Notes to Physician	The effects of inhalation may be delayed. Persons with chronic respiratory or skin disease may be at increased risk from exposure.

4. FIRST AID MEASURES

Eyes	Flush gently but thoroughly for 15 minutes with large amounts of clean water, occasionally lifting upper and lower lids. Seek medical attention immediately.
Skin	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If redness or rash develops and persists, seek medical attention. Wash or clean contaminated clothing and shoes before wearing again.
Inhalation	If respiratory symptoms develop, remove person to fresh air immediately. Seek medical attention if discomfort persists. Begin artificial respiration or CPR (cardiopulmonary resuscitation) if required. Seek medical attention immediately.
Ingestion	Seek medical attention immediately. If conscious, have person drink 16 ounces of water or milk. DO NOT induce vomiting. Do not force an unconscious person to drink or vomit.

5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION DATA

Flash Point	>250°F (121°C)
Flammable Limits	Not known
Autoignition Temperature	Not known
Extinguishing Media	Dry chemical, carbon dioxide, water spray, or alcohol-resistant foam

SPECIAL FIRE FIGHTING PROCEDURES

Keep unauthorized personnel away. Stay upwind. Wear positive pressure, self-contained breathing apparatus and full protective clothing. Stop spill/release if it can be done without risk. Do not direct water at spill or source of leak. Water spray may be useful in minimizing or dispersing vapors and in cooling equipment exposed to heat and flame. Control runoff waters. Ventilate closed spaces before entering. Always stay away from the ends of tanks.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Ethoxylated products may contain residual amounts of ethylene oxide which can accumulate in the container headspace and be released into the ambient environment. At high temperatures product may release accumulated ethylene oxide, carbon monoxide, and carbon dioxide.

NFPA RATING		NFPA SCALE
Health Hazard	1	0 Least
		1 Slight
Flammability	1	2 Moderate
		3 High
Reactivity	0	4 Extreme

6. ACCIDENTAL RELEASE MEASURES

Keep children, animals, and unauthorized personnel away from spills. Dike large spill areas to prevent spread and runoff into drains, storm sewers, and ditches that lead to waterways. As conditions warrant, notify proper authorities, downstream sewer and water treatment operations, and other downstream users about potentially contaminated water.

Collect spilled liquid in suitable containers. Absorb puddles or drops with an inert material such as sand, soil, or vermiculite. Sweep up and collect used absorbent. Waste or spilled material that cannot be used according to label instructions must be disposed of according to applicable federal, state, county and local regulations.

EPA NATIONAL RESPONSE CENTER 1-800-424-8802

7. HANDLING AND STORAGE

Hygienic Practices	It is advisable to wash promptly if skin becomes contaminated; before eating, drinking, using tobacco, or chewing gum; before using toilet facilities; and at the end of the work shift before leaving worksite.
Handling	Ethoxylated products may contain residual amounts of ethylene which can accumulate in the container headspace and be released into the ambient environment. This process is enhanced when the product is agitated, such as during tank car loading or unloading and during blending operations.
Storage	Store in cool, dry, well ventilated areas away from heat or open flame. Do not mix with incompatible materials. Keep tightly closed in original container

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits for ethylene oxide, (if generated) CAS# 75-21-8	1 ppm (1.8 mg/m ³) 1 ppm	ACGIH TLV-TWA OSHA PEL: 8H TWA
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Ventilation	If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits listed above, additional ventilation exhaust systems may be required.
Eyes	Chemical protective goggles should be used; full face shield over goggles offers further protection where liquid contact is possible.
Skin	Wear PVC-coated gloves. If irritation occurs, impervious clothing and gloves should be worn as needed.
Respiratory	A NIOSH/OSHA recommended respirator should be worn if airborne concentrations exceed established exposure limits listed above.

9. PHYSICAL AND CHEMICAL PROPERTIES (typical)

Boiling Point	> 200°F (93.3°C)
Freezing Point	Not known
Vapor Pressure (mm of Hg)	< 1mm
Vapor Density (air = 1)	> 1
Percent Volatile (by weight)	< 2
Evaporation Rate (ether = 1)	<1
Solubility in Water	Dispersible
pH	Not applicable
Salt-out Temperature	Not applicable
Specific Gravity (H ₂ O=1)	0.915 (+/- 0.05)
Appearance and Odor	Clear, pale yellow liquid Fatty odor

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of storage and handling
Hazardous Polymerization	Will not occur
Incompatibility	Do not mix with strong acids, bases, strong oxidizers
Hazardous Decomposition Products	Combustion products are carbon monoxide and carbon dioxide
Conditions to Avoid	Avoid prolonged excessive heat Avoid contact with strong oxidizing agents

11. TOXICOLOGICAL INFORMATION

Ethylene oxide causes tumors in laboratory animals.

POTENTIAL CARCINOGEN DATA (IARC, NTP, OSHA)

This product has not been identified as a carcinogen by NTP, IARC or OSHA

FOR HEALTH EMERGENCIES CALL YOUR LOCAL POISON CENTER

12. ECOLOGICAL INFORMATION

No data found

First Choice Solar is an agricultural product. However, large spills could possibly damage vegetation. Contamination of waterways could possibly cause fish kills. Prevent spread and runoff into drains, storm sewers, and ditches that lead to waterways.

13. DISPOSAL CONSIDERATIONS

Waste or spilled material that cannot be used according to label instructions must be disposed of according to applicable federal, state, county and local regulations. Dry absorbent such as sand, soil, or vermiculite that has been used to cover spills or leaks should be swept up, collected in a suitable container, and disposed of according to applicable federal, state, county and local regulations.

Containers: Triple rinse (or the equivalent), adding rinse water to application tank. Offer rinsed container for recycling or reconditioning; or puncture and dispose of in a sanitary landfill; or legally incinerate; or follow procedures for disposal that are approved by federal, state, county and local authorities. Do not reuse containers.

14. TRANSPORTATION INFORMATION

DOT Proper Shipping Name	Not applicable
DOT Hazard Class	This product not regulated by DOT
Packaging Group	Not applicable
Label/Placard Required	None
UN/NA No.	Not listed

FOR TRANSPORTATION EMERGENCIES CALL CHEMTREC 1-800-424-9300

15. REGULATORY INFORMATION

No compounds are present in quantities that are regulated by CERCLA or SARA Title III (EPCRA).

All ingredients are exempt from tolerance requirements under 40 CFR 180.1001

CALIFORNIA Proposition 65 **WARNING:** This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

EPA NATIONAL RESPONSE CENTER 1-800-424-8802

16. OTHER INFORMATION

DATE PREPARED	June 20, 1998 June 28, 2001: Review and update, change telephone number
NAME OF RESPONSIBLE PARTY	Western Farm Service, Inc. P.O. Box 1168 Fresno, California 93715-1168 (559) 436-2800

NOTICE

All information appearing in this document is based on data provided by third party sources and is compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.

Western Farm Service, Inc., makes no warranty of merchantability, fitness for any purpose or otherwise, express or implied, concerning this product or its uses which extend beyond the use of the product under normal conditions in accord with the statements made on the label.

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FIRST CHOICE SOLAR™ is a trademark of Western Farm Service, inc.