



MATERIAL SAFETY DATA SHEET

Trade Name: ActiGuard™

Revision Date: 1/8/07

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: ActiGuard™
Chemical Family: Mixture
Product Use: Oil well drilling fluid additive
Emergency Telephone (24 hr.): (ChemTrec) 800-424-9300
Supplied by: MASI Technologies, LLC
P.O. Box 81127
Lafayette, LA 70598-1127
Tel. No. (866) 494-5444
www.masitech.com

Revision Number: 7

HMIS Rating

Health: 1

Flammability: 1

Physical Hazard: 0

PPE: J

HMIS Key: 4=Severe, 3=Serious, 2=Moderate, 1=Slight, 0=Minimal Hazard. *Chronic effects - See Section 11. See Section 8 for Personal Protective Equipment recommendations.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Wt. %	Comments:
Cottonseed oil	8001-29-4	60 – 100	No comments.
Lecithin	8002-43-5	30 – 60	No comments.
Alcohols, C12 - 14- secondary, ethoxylated	84133-50-6	1 – 5	No comments.

3. HAZARDS IDENTIFICATION

Emergency Overview: Occupational exposure not expected to present a health or physical hazard. Prolonged exposure, however, may cause eye, skin and respiratory irritation.

Canadian WHMIS:

UN PIN No: Not regulated

WHMIS Class: Not a controlled product

Physical State: Liquid

Odor: ND

Color: Clear-colorless

Potential Health Effects:

Acute Effects

Eye Contact:

Skin Contact:

Inhalation:

Ingestion:

Not expected to irritate eyes. Prolonged contact, however, may cause irritation.
Not expected to irritate skin. Prolonged contact, however, may cause irritation.
Not expected to be an inhalation hazard. Prolonged inhalation of vapors or mists, however, may cause irritation.
May cause gastric distress, nausea and vomiting if ingested.

Carcinogenicity & Chronic Effects:

IARC: Not Listed; OSHA: Not regulated; NTP: Not listed.

Routes of Exposure:

Eyes. Dermal (skin) contact. Inhalation.

Target Organs/Medical Conditions

Aggravated by Overexposure:

None expected from occupational exposure.

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4. FIRST AID MEASURES

- Eye Contact:** Promptly wash eyes with lots of water while lifting eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
- Skin Contact:** Wash skin thoroughly with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if any discomfort continues.
- Inhalation:** Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion:** Dilute with 2-3 glasses of water or milk, if conscious. Never give anything by mouth to an unconscious person. Get medical attention.
- General Notes:** Persons seeking medical attention should carry a copy of this MSDS with them.

5. FIRE FIGHTING MEASURES

Flammable Properties

- Flash Point: F (C):** >200F (>93C)
Flash Point Method: Estimated
Flammable Limits in Air - Lower (%): ND
Flammable Limits in Air - Upper (%): ND
Auto Ignition Temperature: F(C): ND
Flammability Class: IIIB
Other Flammable Properties: Porous combustible materials wetted with product may spontaneously ignite if exposed to air.
- Extinguishing Media:** Carbon dioxide. Dry chemical. Foam. Water mist.

Protection of Fire-Fighters

- Special Fire-Fighting Procedures:** Do not enter fire area without proper personal protective equipment, including NIOSH/MSHA approved self-contained breathing apparatus. Evacuate area and fight fire from a safe distance. Water spray may be used to keep fire-exposed containers cool. Keep water run off out of sewers and waterways.

- Hazardous Combustion Products:** Oxides of Carbon.

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Use personal protective equipment identified in Section 8.
- Spill Procedures:** Evacuate surrounding area, if necessary. Keep personnel removed and upwind of spill. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Shut off leak if it can be done safely. Contain spilled material. Absorb in vermiculite, dry sand or earth. Place into containers for disposal.
- Environmental Precautions:** Do not allow to enter sewer or surface and subsurface waters. Waste must be disposed of in accordance with federal, state and local laws. In the U.S., for products with reportable quantity (RQ) components - if the RQ is exceeded, report to National Spill Response Office at 1 800 424 8802.

7. HANDLING AND STORAGE

- Handling:** Put on appropriate personal protective equipment. Avoid contact with skin and eyes. Avoid breathing vapors or spray mists. Use only in a well ventilated area. Wash thoroughly after handling..
- Storage:** Store in dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits (TLV & PEL - 8H TWA):

Ingredient	CAS No.	Wt. %	ACGIH TLV	OSHA PEL	Other	Notes
Cottonseed oil	8001-29-4	60 – 100	10 mg/m ³ (vegetable oil mists)	15 mg/m ³ (total); 5 mg/m ³ (respirable) (vegetable oil mist)	NA	None
Lecithin	8002-43-5	30 – 60	NA	NA	NA	None
Alcohols, C12 - 14- secondary, ethoxylated	84133-50-6	1 – 5	NA	NA	NA	None

Engineering Controls: Local exhaust ventilation as necessary to maintain exposures to within applicable limits.

Personal Protection Equipment

Eye/Face Protection: Wear chemical safety goggles.

Skin Protection: Wear appropriate clothing to prevent repeated or prolonged skin contact. Wear chemical resistant gloves such as nitrile or neoprene.

Respiratory Protection: If exposed to particulates/aerosols: Use at least a NIOSH-approved N95 half-mask disposable particulate respirator. In work environments containing oil mist/aerosol use at least a NIOSH-approved P95 half-mask disposable or reuseable particulate respirator.
If exposed to organic vapors: Use a NIOSH/MSHA-approved organic vapor respirator. CCROV: CCR with organic vapor cartridge.
A NIOSH/MSHA approved respirator with ammonia/methylamine cartridges should be used to protect against ammonia or amine inhalation exposure.

Refer to Exposure Limits table (Section 8) for component specific respiratory protection recommendations.

General Hygiene Considerations: Wash promptly with soap and water if skin becomes contaminated. Change work clothing daily if there is any possibility of contamination..

9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Clear-colorless
Odor:	ND
Physical State:	Liquid
pH:	ND
Specific Gravity (H₂O = 1):	0.91 – 0.96
Solubility (Water):	ND
Flash Point: F (C):	>200F (>93C)
Melting/Freezing Point:	ND
Boiling Point:	ND
Vapor Pressure:	ND
Vapor Density (Air=1):	ND
Evaporation Rate:	ND
Odor Threshold(s):	ND

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable
Conditions to Avoid:	Keep away from heat, sparks and flame.
Materials to Avoid:	Oxidizers. Acids. Bases. Materials reactive with hydroxyl compounds.
Hazardous Decomposition Products:	For thermal decomposition products, see Section 5.
Hazardous Polymerization:	Will not occur

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11. TOXICOLOGICAL INFORMATION

Component Toxicological Data: Any adverse component toxicological effects are listed below. If no effects are listed, no such data were found.

Ingredient	CAS No.	Acute Data
Cottonseed oil	8001-29-4	Oral LC50: >90 ml/kg (rat)
Alcohols, C12 - 14- secondary, ethoxylated	84133-50-6	Oral LC50: 8.57 ml/kg (rat); Dermal LC50: 4.00 ml/kg (rabbit)

Product Toxicological Information: No toxicological data is available for this product.

12. ECOLOGICAL INFORMATION

Ingredient	CAS No.	Acute Data
Alcohols, C12 - 14- secondary, ethoxylated	84133-50-6	LC50 96H: 3.2 mg/l (fathead minnow); EC50 48H 3.2 mg/l (water flea)

Product Ecotoxicity Data: Contact MASI's Environmental Affairs Department for available product ecotoxicity data.

Biodegradation: ND

Bioaccumulation: ND

Octanol/Water Partition Coefficient: ND

13. DISPOSAL CONSIDERATIONS

Waste Classification: This product does not meet the criteria of a hazardous waste if discarded in its purchased form.

Waste Management: Under U.S. Environmental Protection Agency (EPA) Resource Conservations and Recovery Act (RCRA), it is the responsibility of the user to determine at the time of disposal, whether the product meets RCRA criteria for the hazardous waste. This is because product uses, transformations, mixtures, processes, etc., may render the resulting materials hazardous. Empty containers contain residues. All labeled precautions must be observed.

Disposal Method: Recover and reclaim or recycle, if practical. Should this product become a waste, dispose of in a permitted industrial landfill. Ensure that the containers are empty by the RCRA criteria prior to disposal in a permitted industrial landfill.

14. TRANSPORT INFORMATION

U.S. DOT

Shipping Description: Not regulated for transportation by DOT, TDG, IMDG, ICAO/IATA.

TDG (Canada):

Shipping Description: Not regulated

UN PIN No: Not regulated

IMDG

Shipping Description: Not regulated

ICAO/IATA

Shipping Description: Not regulated.

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15. REGULATORY INFORMATION

U.S. Federal and State Regulations

SARA 311/312 Hazard Categories: Not a SARA 311/312 hazard.

SARA 302/304, 313; CERCLA RQ, California Proposition 65: Note: If no components are listed below, this product is not subject to the referenced SARA and CERCLA regulations and is not known to contain a Proposition 65 listed chemical at a level that is expected to pose a significant risk under anticipated use conditions.

International Chemical Inventories

Australia AICS - Components are listed or exempt from listing.
Canada DSL - Components are listed or exempt from listing.
China Inventory - Components are listed or exempt from listing.
European EINECS - Components are listed or exempt from listing.
Japan METI ENCS - Components are listed or exempt from listing.
Korea TCCL ECL - Components are listed or exempt from listing.
Philippine PICCS - Components are listed or exempt from listing.
U.S. TSCA - Components are listed or exempt from listing.
U.S. TSCA - No components are subject to TSCA 12(b) export notification requirements.

Canadian Classification:

Controlled Products Regulations Statement: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS Class: Not a controlled product

16. OTHER INFORMATION

The following sections have been revised: Section 1

NA - Not Applicable, ND - Not Determined.

Disclaimer:

MSDS furnished independent of product sale. While every effort has been made to accurately describe this product, some of the data are obtained from sources beyond our direct supervision. We can not make any assertions as to its reliability or completeness; therefore, user may rely on it only at user's risk. We have made no effort to censor or conceal deleterious aspects of this product. Since we cannot anticipate or control the conditions under which this information and product may be used, we make no guarantee that the precautions we have suggested will be adequate for all individuals and/or situations. It is the obligation of each user of this product to comply with the requirements of all applicable laws regarding use and disposal of this product. Additional information will be furnished upon request to assist the user; however, no warranty, either expressed or implied, nor liability of any nature with respect to this product or to the data herein is made or incurred hereunder.