

MATERIAL SAFETY DATA SHEET



Date Issued: 03/10/2006
 MSDS No: TerraLOC®
 Date-Revised: 03/31/2009
 Revision No: 10

TerraLOC® 4% - 16% Solution

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TerraLOC® 4% - 16% Solution

MANUFACTURER

MonoSol, LLC
 TerraLoc
 1701 County Line Road
 Portage IN 46368
Service Number: (219) 762-3165

24 HR. EMERGENCY TELEPHONE NUMBERS

24-Hour Emergency Hotline - CHEMTREC:
 From outside the U.S.: 00 +1.703.527.3887
 From within the U.S.: 1.800.424.9300

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Slightly viscous liquid.

IMMEDIATE CONCERNS: None

SIGNS AND SYMPTOMS OF OVEREXPOSURE

CARCINOGENICITY: Not Listed by NTP, IARC or OSHA.

ROUTES OF ENTRY: Eyes, skin, ingestion and inhalation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %
Water-based non-hazardous proprietary mixture	100

4. FIRST AID MEASURES

EYES: Flush eyes with plenty of water. If irritation develops, seek medical attention.

SKIN: Remove from skin with soap and water.

INGESTION: If a large amount is ingested, seek medical attention.

INHALATION: It is advisable to wear a particle mask when working in areas with a high concentration of airborne respirable droplets.

MATERIAL SAFETY DATA SHEET



Date Issued: 03/10/2006
MSDS No: TerraLOC®
Date-Revised: 03/31/2009
Revision No: 10

TerraLOC® 4% - 16% Solution

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical.

FIRE FIGHTING PROCEDURES: This product is a nonflammable substance. However, hazardous decomposition and combustion products may be formed in a fire situation.

6. ACCIDENTAL RELEASE MEASURES

COMMENTS: Spill response: If spilled indoors, obtain approval from local wastewater treatment plant to rinse down the drain. If spilled outside, either recover product, or flush area with water to dilute and disperse. If in an area where you do not desire dust control, absorb material and dispose of according to local, state, and federal regulations.

7. HANDLING AND STORAGE

STORAGE: Avoid freezing. If possible, store at room temperature.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Although this product is non-hazardous, it is safe practice to wear safety glasses and a particulate mask when working around a high concentration of airborne droplets.

SKIN: Gloves are not required under normal conditions. Take into consideration how the product is being used and hazards associated with other materials used in conjunction with this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE COMMENTS: Colorless or slightly yellow water-soluble liquid with slight fatty odor; pH 7-8.

SPECIFIC GRAVITY: 1.05 g/cc

COMMENTS: VOC content: <10 ppm (<0.001%)

10. STABILITY AND REACTIVITY

MATERIAL SAFETY DATA SHEET



Date Issued: 03/10/2006
 MSDS No: TerraLOC®
 Date-Revised: 03/31/2009
 Revision No: 10

TerraLOC® 4% - 16% Solution

STABILITY: The product is stable under normal ambient conditions of temperature and pressure.

POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Temperatures above 200° C (392° F).

HAZARDOUS DECOMPOSITION PRODUCTS: Irritating and toxic fumes at elevated temperatures from burning, heating or reaction with other materials.

INCOMPATIBLE MATERIALS: Oxidizing agents (i.e. perchlorates, nitrates etc.)

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Information representative of the major component indicates that the powder and aqueous solutions are slightly irritating to rabbit eyes, irritation subsided by 48 hours after exposure.

SKIN EFFECTS: In powder form the major component, polyvinyl alcohol, was nonirritating to rabbit skin. In aqueous solution, slight irritation to rabbit skin was noted. Not a skin sensitizer in guinea pigs when dosed as a 10% aqueous solution.

CARCINOGENICITY

Notes: Not listed by IARC, NTP, or OSHA as a carcinogen.

12. ECOLOGICAL INFORMATION

COMMENTS: The acute exposure results for biological acute toxicity at a typical 8:1 dilution is as follows:

Earthworm: 7-day LC50 >10,000 mg/L 14-day LC50 >10,000 mg/L

Daphnia magna: 24-hr EC50 >8,000 mg/L 48-hr EC50 2,732 mg/L 48-hr NOEC 2,000 mg/L

Fathead minnow: 48-hr LC50 4,925 mg/L 96-hr NOEC 4,000 mg/L

Green Alga P. Subcapita: 72-hr LC50 190 mg/L 72-hr NOEC 75 mg/L

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Product is water-soluble and non-hazardous. Product is normally accepted by local wastewater treatment plants. Obtain prior approval before disposal. For large quantities: reclaim, dilute and disperse (if in dust suppressant application area), or absorb and place in waste containers for disposal.

14. TRANSPORT INFORMATION

COMMENTS: Not regulated by DOT, IATA, IMDG, or ADR.

MATERIAL SAFETY DATA SHEET



Date Issued: 03/10/2006
 MSDS No: TerraLOC®
 Date-Revised: 03/31/2009
 Revision No: 10

TerraLOC® 4% - 16% Solution

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

TITLE III NOTES: No SARA 311, 312 or 313 hazards.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: We certify that all components are either on the TSCA inventory or qualify for an exemption.

16. OTHER INFORMATION

REASON FOR ISSUE: revision

APPROVED BY: David M. Lee, pH.D. **TITLE:** Director of Research & Development

PREPARED BY: Melanie C. Kroczek, CHMM

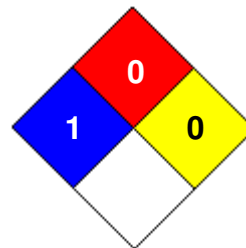
INFORMATION CONTACT: Melanie C. Kroczek

REVISION SUMMARY: Revision #: 10. This MSDS replaces the February 03, 2009 MSDS. In Section 7: General Procedures In Section 15: Fire, Pressure Generating, Reactivity, Accute, Chronic, SARA Title III Notes

HMIS RATING

HEALTH:	1
FLAMMABILITY:	0
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	B

NFPA CODES



MANUFACTURER DISCLAIMER: Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.