

MATERIAL SAFETY DATA SHEET



Liquid Fence® Company, Inc.
P.O. Box 1510
Blakeslee, PA 18610

Product Name: Moisture-In
Phone: 800-923-3623
Fax: 570-646-5740
Date of Preparation: 10/21/2011
Date of Revision: 01/25/2013

MSDS Date: 10/21/2011
Product Name: Moisture-In

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

CAS #: Liquid Mixture
Product Use: Foliar Anti-transpirant & Protective Plant Coating

Manufacturer: Glessner Sales, Incorporated
7615 N.Upland Drive
Portland, OR 97296
503-227-6497

24-Hour Emergency: **INFOTRAC: 1-800-535-5053**
NOTE: INFOTRAC emergency number to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

SECTION 2 - HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

Potential short term health effects: Eye, Skin contact, Inhalation, Ingestion.
Eyes: May cause irritation.
Skin: May cause irritation.
Inhalation: May cause respiratory tract irritation.
Ingestion: Ingestion may cause gastrointestinal tract irritation.
Target organs: Eyes, Skin, & Respiratory system.
Chronic effects: Cancer hazard.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Composition comments: This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).

Contains the following ingredients which comply with the FIFRA 25(b) minimum risk active ingredients or List 4A inert ingredients:

COMPONENT	CAS#	PERCENTAGE
HALOFLEX 202	81209-39-4	7.45%
TEXANOL	25265-77-4	0.26%
PLURONIC F-87	9003-11-6	0.14%
BERMODOL PUR 2100		0.03%
NATROSOL 250HR	9004-62-0	0.02%
COLLOIDS 640		0.05%
AMMONIUM HYDROXIDE	1336-21-6	0.01%

INERT	CAS#	PERCENTAGE
WATER	7732-18-5	92.04%

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SECTION 4 - FIRST AID MEASURES

FIRST AID PROCEDURES

Eye contact: Immediately flush eyes with water. Flush with cool water for a minimum of 15 minutes. Remove contact lenses, if applicable, and continue flushing. Occasionally lift and lower upper lids. Obtain medical attention if irritation persists.

Skin contact: Wash with soap and water. Remove contaminated clothing and wash before reuse. Obtain medical attention if irritation develops or persists.

Inhalation: If symptoms develop move victim to fresh air. If not breathing, give artificial respiration. If breathing becomes difficult, give oxygen. Keep victim warm. Obtain medical attention if symptoms persist.

Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.

General advice: If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Keep out of reach of children.

SECTION 5 - FIRE FIGHTING MEASURES

Flammable properties: Not flammable by OSHA criteria.

Suitable extinguishing media: Foam, CO₂, Dry Chemical, Water Fog

Extinguishing media: Treat for surrounding material.

Unsuitable extinguishing media: Not Available.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Protection of firefighters: Not Available.

Protective equipment for firefighters: Firefighters should wear full protective clothing including self-contained breathing apparatus.

Hazardous combustion products: None known.

SENSITIVITY TO MECHANICAL IMPACT

Explosion data: Not Available.

Sensitivity to static discharge: Not Available.

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Personal precautions: Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Unusual Fire and Explosion Hazards: Not Available.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Methods for containment: Wear appropriate personal protective equipment. Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid run-off into storm sewers, and other ditches which lead to waterways.

Methods for cleaning up: Before attempting clean up, refer to hazard data given above. Ventilate spill area. Stay up-wind of spill. Absorb spill with inert material (e.g. dry sand or earth) then place in chemical waste container. Note: Surfaces may become slippery after spillage.

SECTION 7 - HANDLING AND STORAGE

Handling: Use only in a good ventilated area. Avoid breathing vapor, fumes or mist. Avoid contact with eyes, skin and clothing. Follow all MSDS/label precautions even after containers are emptied because they may retain product residue.

Storage: Keep out of reach of children. Keep away from heat, sparks, and flame. Store containers in a cool, well ventilated place. Keep from freezing. Keep container closed when not in use.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

EYE / FACE PROTECTION

Personal protective equipment: Wear safety glasses with side shields (or goggles) and a face shield.

Hand protection: Wear impervious gloves to prevent contact with the skin.

Skin and body protection: Wear protective gear as needed – apron, suit, boots.

Respiratory protection: A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

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General hygiene considerations:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Milky liquid dries clear
Color:	Off-white to Beige
Form:	Liquid
Odor:	Slight Odor
Odor threshold:	Not Available.
Physical state:	Liquid
pH:	Not Available.
Freezing point:	Do not allow to freeze.
Boiling point:	212°F
Flash point:	140°F
Evaporation rate:	Estimated slower than Butyl Acetate
Flammability limits in air, lower, % by volume:	N/A
Flammability limits in air, upper, % by volume:	N/A
Vapor pressure:	Not Available.
Vapor density:	Lighter than air
Specific gravity:	1.1648 (g/ml)
Octanol/water coefficient:	Not Available.
Auto-ignition temperature:	Not Available.

SECTION 10 - CHEMICAL STABILITY & REACTIVITY INFORMATION

Chemical stability:	Not Available.
Conditions to avoid:	Not Available.
Hazardous decomposition products:	Combustion can lead to the formation of ammonia. At Decomposition temperature, chlorine gas may be emitted. Decomposition releases nitrogen oxides. May release hydrogen chloride under fire conditions. During combustion, carbon monoxide may be formed.
Possibility of hazardous reactions:	Hazardous polymerization does not occur under normal conditions.

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SECTION 11 - TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE

Eye:	May cause irritation.
Skin:	May cause irritation.
Inhalation:	May be irritating to the respiratory system.
Ingestion:	May cause stomach distress, nausea or vomiting.
Sensitization:	Not Available.
Chronic effects/Carcinogenicity:	Cancer hazard.
Mutagenicity:	Not Available.
Reproductive effects:	Not Available.
Teratogenicity:	Not Available.
Ecotoxicity:	Not Available.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental effects:	Not Available.
Aquatic toxicity:	Not Available.
Persistence/degradability:	Not Available.
Bioaccumulation/accumulation:	Not Available.
Partition coefficient:	Not Available.
Mobility in environmental media:	Not Available.
Chemical fate information:	Not Available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste codes:	Not Available.
Disposal instructions:	Wash container with water. Dispose in accordance with all applicable regulations.
Waste from residues/unused products:	Not Available.
Contaminated packaging:	Not Available.

SECTION 14 - TRANSPORTATION INFORMATION

U.S. Department of Transportation (DOT):	Not regulated as dangerous goods.
US Federal regulations:	This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

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SECTION 15 - REGULATORY INFORMATION

CERCLA-SARA Hazard Category: This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered under applicable definition, to meet the following categories.

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD

SARA Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372

Toxic Substances Control Act: All components of this product are listed or are exempt from listing on the TSCA 8(b) inventory. If identified components of this product are listed under the TSCA 12(b) export notification rule, they will be listed below.

U.S. STATE REGULATIONS-As Follows:

New Jersey Right-to-Know: The following materials are non-hazardous, but are among the top five components in this product.

<u>Chemical Name</u>	<u>CAS Number</u>
VINYL ACRYLIC COPOLYMER EMULSION	
WATER	7732-18-5
2,2,4-TRIMETHYL-1,3 PENTANEDIOL MONOISOBUTYRATE	25265-77-4
POLYOXYPROPYLENE-POLYOXYETHYLENE BLOCK COPOLYMER	
PETROLEUM DISTILLATE MIXTURE	

Pennsylvania Right-to-Know: The following non-hazardous ingredients are present in the product at greater than 3%.

<u>Chemical Name</u>	<u>CAS Number</u>
VINYL ACRYLIC COPOLYMER EMULSION	
WATER	7732-18-5

California Proposition 65: Warning: The following ingredients present in the product are known to the state of California to cause cancer.
Warning: The following ingredients present in the product are known to the state of California to cause birth defects or other reproductive hazards.

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INTERNATIONAL REGULATIONS:

CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

Disclaimer:

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

SECTION 16 - OTHER INFORMATION

Issue date: October 21, 2011
Effective date: October 21, 2011
Prepared by: Liquid Fence® Company, Inc.
(800) 923-3623