

MATERIAL SAFETY DATA SHEET



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

Product Name: Frost Protect – Conc.
Phone: 800-923-3623
Fax: 570-646-5740
Date of Preparation: 03/11/2011
Date of Revision: 11/21/2013

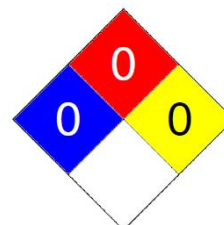
MSDS Date: 03/11/2011
Product Name: Liquid Fence Frost Protect - Concentrate

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

CAS #: Liquid Mixture
Product Use: Plant, flower and/or garden care product
Manufacturer: Liquid Fence® Company, Inc.
P.O. Box 1510
Blakeslee, PA 18610
800-923-3623

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 0
Flammability	0
Physical Hazard	0
Personal Protection	B



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: May cause stomach distress, nausea or vomiting.
Target organs: Eyes, Skin, & Respiratory system.
Chronic effects: Prolonged or repeated exposure can cause drying, defatting and dermatitis.
Signs and symptoms: Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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:

MATERIAL SAFETY DATA SHEET



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

Product Name: Frost Protect – Conc.
Phone: 800-923-3623
Fax: 570-646-5740
Date of Preparation: 03/11/2011
Date of Revision: 11/21/2013

ACTIVE COMPONENT	CAS#	PERCENTAGE
POLYETHYLENE GLYCOL 8000	25322-68-3	7.54%
GLYCERIN	56-81-5	0.24%
BICYCLIC OXAZOLIDINES	56709-13-8	9.19%
SILICIC ACID POTASSIUM SALT	1312-76-1	2.12%
SILICONE POLYETHER COPOLYMER	68037-64-9	0.61%

OTHER COMPONENT	CAS#	PERCENTAGE
WATER	7732-18-5	80.30%

SECTION 4 - FIRST AID MEASURES

FIRST AID PROCEDURES

Eye contact: Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

Skin contact: Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

Inhalation: If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

Ingestion: Do not induce vomiting. 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.

Notes to physician: Symptoms may be delayed.

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

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.

MATERIAL SAFETY DATA SHEET



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

Product Name: Frost Protect – Conc.
Phone: 800-923-3623
Fax: 570-646-5740
Date of Preparation: 03/11/2011
Date of Revision: 11/21/2013

Sensitivity to static discharge: Not Available.
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.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Methods for containment: Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up: Before attempting clean up, refer to hazard data given above. Small spills may be absorbed, swept up and placed in suitable, covered, labeled containers. Small residues may be washed with detergent and water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use. Note: Surfaces may become slippery after spillage.

SECTION 7 - HANDLING AND STORAGE

Handling: Use good industrial hygiene practices in handling this material.
Storage: Keep out of reach of children. Store in a closed container away from incompatible materials.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: General ventilation normally adequate.

EYE / FACE PROTECTION

Personal protective equipment: Wear safety glasses with side shields.
Hand protection: Rubber gloves. Confirm with a reputable supplier first.
Skin and body protection: As required by employer code.
Respiratory protection: Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice. When using, do not eat or drink. Wash hands before breaks and immediately after handling the product.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance: Clear
Color: Colorless
Form: Liquid

MATERIAL SAFETY DATA SHEET



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

Product Name: Frost Protect – Conc.
Phone: 800-923-3623
Fax: 570-646-5740
Date of Preparation: 03/11/2011
Date of Revision: 11/21/2013

Odor:	Not Available.
Odor threshold:	Not Available.
Physical state:	Liquid
pH:	Not Available.
Freezing point:	Not Available.
Boiling point:	Not Available.
Flash point:	Not Available.
Evaporation rate:	Not Available.
Flammability limits in air, lower, % by volume:	Not Available.
Flammability limits in air, upper, % by volume:	Not Available.
Vapor pressure:	Not Available.
Vapor density:	Not Available.
Specific gravity:	Not Available.
Octanol/water coefficient:	Not Available.
Auto-ignition temperature:	Not Available.

SECTION 10 - CHEMICAL STABILITY & REACTIVITY INFORMATION

Chemical stability:	Stable under recommended storage conditions.
Conditions to avoid:	Do not mix with other chemicals.
Incompatible materials:	Acids & Oxidizers.
Hazardous decomposition products:	None known.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE

Eye:	May cause irritation.
Skin:	May cause irritation.
Inhalation:	May cause respiratory tract irritation.
Ingestion:	May cause stomach distress, nausea or vomiting.
Sensitization:	Non-hazardous by OSHA criteria.
Chronic effects/ Carcinogenicity:	Non-hazardous by OSHA criteria.
Mutagenicity:	Non-hazardous by OSHA criteria.
Reproductive effects:	Non-hazardous by OSHA criteria.
Teratogenicity:	Non-hazardous by OSHA criteria.
Ecotoxicity:	Not Available.

MATERIAL SAFETY DATA SHEET



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

Product Name: Frost Protect – Conc.
Phone: 800-923-3623
Fax: 570-646-5740
Date of Preparation: 03/11/2011
Date of Revision: 11/21/2013

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: 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.
U.S. 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.

SECTION 15 - REGULATORY INFORMATION

29 CFR 1910.1200 hazardous chemical Occupational Safety and Health Administration (OSHA): No
CERCLA (Superfund) reportable quantity: Naphthalene: 100.0000 Ammonium hydroxide: 1000.0000

HAZARD CATEGORIES

Superfund Amendments and Reauthorization Act of 1986 (SARA):

Immediate Hazard: No
Delayed Hazard: No
Fire Hazard: No
Pressure Hazard: No
Reactivity Hazard: No

Section 302 extremely hazardous

Substance: No

Section 311 hazardous chemical: No

Clean Air Act (CAA): Not Available.

MATERIAL SAFETY DATA SHEET



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

Product Name: Frost Protect – Conc.
Phone: 800-923-3623
Fax: 570-646-5740
Date of Preparation: 03/11/2011
Date of Revision: 11/21/2013

Clean Water Act (CWA):

Not Available.

State regulations:

This product contains the following substances known to the State of California to cause cancer: None.

INVENTORY STATUS

Inventory Country(s) or region name on inventory (yes/no)*:

Yes - A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) of The United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

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:

March 11, 2011

Effective date:

March 11, 2011

Prepared by:

Liquid Fence® Company, Inc.
(800) 923-3623