



2151 34TH WAY N. - LARGO, FL 33771

(727) 531-8796 - WWW.FLO-TECINC.COM

SAFETY DATA SHEET

Product Name: LAST
SDS# 5035

Effective Date: June 1, 2015
Revision 1A

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1: IDENTIFICATION

Product Name: LAST

Synonyms: L.A.S.T., LAS-T, Liquid Aqua-Solv

Registrations: N/A

1.2 COMPANY IDENTIFICATION

Manufactured By: Flo-Tec Inc.
2151 34th Way N.
Largo FL 33771
(727) 531-8796

1.3 EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Telephone Number:
CHEM-TREC 800-424-9300



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2. COMPOSITION INFORMATION

Component	CAS #	Amount (%w/w)
Proprietary Phosphonic Acid Blend	NA	>40
Quaternary & Nonylphenyl Surfactants	NA	>2
Carboxylic Acids	NA	2-4
Water	7732-18-5	Balance

3. HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Appearance	Semi-Opague
Physical State	Liquid
Odor	Odorless
Hazards of Product	NA
Routes of Entry	Skin contact, eye contact, inhalation, ingestion.

3.2 POTENTIAL HEALTH EFFECTS

Effects of Single Acute Overexposure

Inhalation	N/A
Eye Contact	N/A
Skin Contact	N/A
Skin Absorption	N/A
Swallowing	N/A

3.3 POTENTIAL ENVIRONMENTAL EFFECTS: NA



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4. FIRST AID PROCEDURES

- 4.1 INHALATION: Remove to fresh air. If breathing discomfort occurs and persists, see a medical doctor.
- 4.2 EYE CONTACT: Immediately flush with water for at least 15 minutes, lifting upper and lower eyelids intermittently. Causes burns and may result in permanent injury to eyes including blindness. See a medical doctor immediately.
- 4.3 SKIN CONTACT: Remove contaminated clothing and thoroughly wash with soap and water. Wash affected with plenty of water and soap if available, for several minutes. Remove and clean contaminated clothing and shoes. Seek medical attention if irritation develops or persists. If irrigation occurs and persists, contact a physician.
- 4.4 INGESTION: If breathing discomfort occurs and persists, see a medical doctor. If breathing has stopped, give artificial respiration. Give 3-4 glasses of water, but DO NOT induce vomiting. If vomiting occurs, give fluids again. Get medical attention to determine whether vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person. See medical doctor immediately.
- 4.5 NOTES TO PHYSICIAN: Consideration should be given to careful endoscopy as stomach or esophageal burns, perforations or strictures may occur. Careful gastric lavage with an endotracheal tube in place should be considered.



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5. FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES: No known fire or explosion hazards known to be related to this product.

5.2 EXTINGUISHING MEDIA: Water spray, carbon dioxide, foam.
Use media suitable for the material that is burning.

5.3 FIRE FIGHTING PROCEDURES: Move containers from area if it can be done safely. Cool fire-exposed containers with water from side. Use flooding quantities of water only. Use water spray to keep all containers cool. Fight fire from protected or removed distance. Chemical type extinguishers are not very effective. Use proper personal protective equipment and positive pressure self-contained breathing apparatus.

5.4 SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: As in any fire, wear NIOSH/MSHA approved, pressure-demand self-contained breathing apparatus and full protective gear.

5.5 UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

5.6 HAZARDOUS COMBUSTION PRODUCTS: No known combustion hazards.

5.7 POLYMERIZATION: Will not occur.

5.8 STATIC DISCHARGE: N/A



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6. ACCIDENTAL RELEASE MEASURES

6.1 STEPS TO BE TAKEN IF MATERIAL IS SPILLED: Always approach spills from upwind. Small spills may be flushed to an approved sewer line with generous amounts of water (if approved by local and environmental agencies). For larger spills, dike well ahead of spill with non-reactive material such as sand. Spill may be neutralized with soda ash (sodium carbonate) broadcasted on surface. Use 1 to 1.5 lb. of soda ash for each gallon of spilled material. The resultant neutralized product will become carbon dioxide and water. Flush material with water and collect for disposal into plastic container. A flush to sewer may be allowed if approved by local authority. Dispose of in accordance with federal, state, or local laws. Combustible materials should be removed and/or rinsed with water to ensure all residual hydrogen peroxide is removed to the extent possible.

6.2 PERSONAL PRECAUTIONS: Approach spills upwind. Wear special protective clothing and self-contained breathing apparatus with appropriate gas/acid cartridges.

6.3 ENVIRONMENTAL PRECUTIONS: Do not allow undiluted material to enter storm or sanitary sewer systems. Dispose in accordance with state, local and federal laws.

6.4 OTHER PRECAUTIONS: N/A



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7. HANDLING AND STORAGE

General Handling	Store drums in upright position only. Transfer product from drums to process in a closed system. Empty drums as thoroughly as possible. Triple rinse before disposal. Never return product to original container.
Ventilation	Always handle product in a well ventilated area.
Storage	Store in cool, dry, well ventilated area. Avoid temperatures that would allow the liquid bulk temperature to rise above 95° F. DO NOT STORE IN DIRECT SUNLIGHT, or near sources of ignition or heat. Use first in, first out storage management. Protect from freezing.
Other Precautions	N/A

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 EXPOSURE LIMITS: N/A

8.2 PERSONAL PROTECTION:

EYES & FACE:

Use cup type chemical goggles or face shield.

SKIN:

Use synthetic apron and protective clothing and other protective equipment as necessary to prevent skin contact. Thoroughly wash the outside of gloves and protective clothing with soap and water before removing.



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RESPIRATORY:

For normal use as directed, respiratory protection is not required. If handling concentrate product or when mists are generated use approved cartridge or canister filter mask if discomfort occurs. If breakthrough occurs, then use self-contained breathing apparatus.

PROTECTIVE CLOTHING:

Heavy rubber or vinyl gloves. Rubber boots, vinyl or rubber protective suit to protect skin and clothing contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Appearance: Semi-opaque

Odor: Slight Odor.

Boiling Point: 95°

Specific Gravity (H2O=1): 1.06

Freezing Point: N/A

Solubility in Water: Soluble

pH (1% solution): 2.9



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10. STABILITY AND REACTIVITY

10.1 STABILITY/INSTABILITY

Stability:

Stable (expected shelf-life one year, when stored at temperatures <86° F.

Conditions to Avoid:

Open flames, elevated temperatures, any source of heat.

Incompatible Materials:

Dirt, alkali (lye), organics.

Thermal Decomposition: N/A

10.2 HAZARDOUS POLYMERIZATION or DECOMPOSITION: N/A.

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY: N/A.

ACUTE HEALTH EFFECTS

Eyes: Severe irritant.

Skin: Severe irritant.

Dermal: N/A



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Inhalation: No data for available for this product.

Ingestion: Severe Irritation

SENSITIZATION (ANIMAL AND HUMAN STUDIES):
No known significant effects.

DEVELOPMENTAL TOXICITY: No known significant effects.

CHRONIC TOXICITY AND CARCINOGENICITY:
No known significant effects.

TOXICOLOGY DATA:
No data available for this product.

12. ECOLOGICAL INFORMATION

12.1 ENVIRONMENTAL FATE: N/A

12.2 ECOTOXICITY: N/A

12.3 FURTHER INFORMATION: N/A

13. DISPOSAL CONSIDERATIONS

13.1 WASTE DISPOSAL:

The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with waterways, drains, and sewers. Disposal of this product should comply with the requirements of the local, state, or regional environmental authority.



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14. TRANSPORT INFORMATION

14.1 U.S.D.O.T.

NON-BULK

Proper Shipping Name:

Non-Hazardous Rating, Ships under the name LAST.

BULK

Proper Shipping Name:

Non-Hazardous Rating, Ships under the name LAST.

15. REGULATORY INFORMATION

REPORTABLE QUANTITY: N/A

HMIS (Hazardous Materials Identification System)

Health 2, Flammability 0, Reactivity 1

16. OTHER INFORMATION

16.1 ADDITIONAL INFORMATION: N/A

Additional information about this product may be obtained
by calling Flo-Tec Inc. at 800-335-6832 or 727-531-8796.

16.2 HAZARDOUS RATING SYSTEM: Non-Rated



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16.3 RECOMMENDED USES AND RESTRICTIONS

FOR INDUSTRIAL USE ONLY

A partial list of examples include agricultural, nursery, water treatment, irrigation, etc.

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