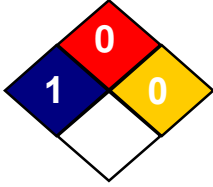



NFPA	HMIS	PPE	Transport Symbol
	<div>HEALTH 1</div> <div>FLAMMABILITY 0</div> <div>REACTIVITY 0</div>		

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identity:** Mark's Liquid Enzyme

**Intended Use:** Natural Bacterial Enzymes for Drain, Septic & Cesspool Cleaning

**Distributor:**

John W. Gaspirini Inc.  
P.O. Box 121554, Fort Worth, TX 76121  
Tel: 1-866-767-6865

Web Site: [www.Markspp.com](http://www.Markspp.com)  
E-mail: [sales@markspp.com](mailto:sales@markspp.com)

**Emergency Phone:** : Infotrac: 1-800-535-5053

**MSDS Date of Preparation:** 2018-11-06

## 2. HAZARDS IDENTIFICATION

Bacterial culture non pathogenic, surfactant blend non hazardous.

Irritating to skin, risk of serious damage to eyes.

### EMERGENCY OVERVIEW

Bacterial culture. Immediate medical attention is required in case of exposure by inhalation, contact with skin, eyes or if swallowed.

Potential Health Effects:

**Inhalation:** May cause irritation.

**Ingestion:** Irritation of gastrointestinal tract, nausea, diarrhea

**Eye:** Irritation

**Skin:** Redness and irritation

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components not listed are either non hazardous or in concentration of less than 1%

Component	CAS No.	OSHA PEL	ACGIH TLV	Other Limits	Upper Bound limit if SARA Reportable
Concentrated Bacterial Cultures	N/A	N/A	N/A	N/A	N/A
Water	7732-18-5	N/A	N/A	N/A	N/A
Surfactant	N/A	N/A	N/A	N/A	N/A

**HMIS Hazard Rating:** 1 0 0 B

#### 4. EMERGENCY AND FIRST AID PROCEDURES.

Immediate medical attention is required in case of exposure by inhalation, contact with skin or eyes, or if swallowed.

**Eye:** Irritation. Irrigate thoroughly with water for at least 15 minutes. Obtain medical attention. Do not delay.

**Skin:** Redness and irritation. Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. If large areas of the skin are damaged or if irritation persists seek medical attention.

**Inhalation:** May cause irritation. Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete seek medical attention.

**Ingestion:** Irritation of gastrointestinal tract, nausea, diarrhea. Wash out mouth with water. Do not induce vomiting. If patient is conscious, give water to drink. If patient feels unwell seek medical attention.

**Immediate Treatment / Antidote:** symptomatic treatment

**Delayed Effects:** bacterial infection

**Notes:** Never give anything by mouth to an unconscious person

#### 5. FIRE FIGHTING MEASURES

**Flashpoint:** Not Applicable

**Flammable Limits:** Not flammable under normal conditions of storage and handling.

**Autoignition Temperature:** Not Applicable

**Extinguishing Media:** water

**Unusual Fire or Explosion Hazards:** N/A

**Special Fire-Fighting Instructions:** Firefighters and others, who might be exposed to products of combustion, should wear positive pressure self-contained breathing apparatus and full protective clothing.

**Hazardous Combustion products:** Oxides of carbon and sulfur

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear appropriate PPE - See section 8

**Environmental Precautions:** The bacteria and carriers are naturally occurring and should not pose an environmental risk.

**Clean up Procedure:** Vacuum or sweep up avoiding generation of mist. Place in suitable labeled containers and hold for waste disposal. Wash spill site with water. If bacterial contamination is an issue use bleach to kill the bacillus spores.

#### 7. HANDLING AND STORAGE

**Handling**      **Ventilation:** Good general ventilation.

**Recommended procedures & equipment:** avoid creating mist

**Storage**      **Temperature range:** 0 deg C to 40 deg C for product viability only.

**Humidity range:** all.

**Materials to avoid:** Acids and alkalies because they may inactivate the bacteria cultures.

**Suitable storage Media:** original container with closed lid

**Precautions against static discharge:** recommended.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory Protection:** Mask

**Hand:** Wash hands after use. Gloves recommended

**Engineering Controls:** Use with general or local exhaust ventilation.

**Skin Protection:** Wash after exposure. Overalls and boots recommended

**Eye Protection:** Safety glasses or goggles recommended.

**Environmental controls:** User in accordance with the instructions.

**Hygiene Measures:** Always wash thoroughly after handling chemicals.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance And Odor:</b> Opaque	<b>Boiling Point:</b> 212F
<b>Physical State:</b> liquid	<b>Vapor Pressure:</b> 2.3 kPa @ 20C
<b>Vapor Density:</b> 0.62 (Air=1)	<b>Evaporation Rate:</b> Not determined
<b>Solubility In Water:</b> Soluble. Disperses in water.	<b>Volatile Components:</b> 0 g/L
<b>Specific Gravity:</b> 1.0	<b>Viscosity:</b> N/A
<b>Melting Point:</b> 32F	<b>pH:</b> Neutral 6.5 to 7.5
<b>Relative density:</b> 0.6 to 0.8	<b>Solubility in solvent:</b> Not soluble
<b>Conductivity:</b> Not determined	

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal storage and handling conditions.

**Conditions to avoid:** Accumulations of product in enclosed spaces and generation of mist. Avoid contact with oxidizing chemicals. Excessive temperature variations below 32F and above 155F.

**Materials to avoid:** Acids and Alkalies may inactivate the bacterial cultures.

**Hazardous decomposition products:** oxides of carbon and sulphur

## 11. TOXICOLOGICAL INFORMATION

### HEALTH HAZARDS:

**Toxological effects:** Low Acute oral toxicity although ingestion will cause irritation of the gastrointestinal tract and may result in nausea and diarrhea. May cause mild mechanical irritation to eyes, skin and mucous membranes. May cause irritation from allergic reaction, especially to people that have a history of allergic reaction.

**Inhalation:** May cause irritation.

**Ingestion:** Irritation of gastrointestinal tract, nausea, diarrhea

**Eye:** Irritation

**Skin:** Redness and irritation

**Sensitization:** May cause irritation from allergic reaction on some individuals.

**Chronic:** None

**Carcinogenicity:** No

**Mutagenicity:** No

**Medical Conditions Aggravated by Exposure:** Not determined

**Reproductive Toxicity:** N/A.

**Acute Toxicity Values:** N/A.

## 12. ECOLOGICAL INFORMATION

**Environmental Effects:** Minimal impact under normal conditions of use and storage. The bacterial cultures are naturally occurring soil type organisms. The other components are unlikely to bio accumulate and are biodegradable.

**Mobility:** disperses in water

**Degradability:** Contents are biodegradable

**Bioaccumulative potential:** Not likely

**Aquatic Toxicity:** Not known

## 13. DISPOSAL CONSIDERATIONS

**Substance:** Via an authorized waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

**Container:** As substance.

#### 14. TRANSPORT INFORMATION

**Transportation of Dangerous Goods Description:** Not regulated for transport

#### 15. REGULATORY INFORMATION

**Inventory Status**

**TSCA:** Complies

**DSL:** Complies

**U.S. Federal Regulations**

**SARA 313.**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

**Acute Health Hazard** No

**Chronic Health Hazard** No

**Fire Hazard** No

**Sudden Release of Pressure Hazard** No

**Reactive Hazard** No

**California Proposition 65**

This product contains no chemicals requiring reporting under Proposition 65.

This product has been classified under the CPR and this MSDS discloses information elements required by the CPR.

**Canadian WHMIS:** Class D-2-B (Eye and Skin Irritant)

#### 16. OTHER INFORMATION

This material must not be used for direct contact with food:

Further details may be available upon request from your local distribution site.

Other: The product has been shown to be free of Salmonella and Shigella using the procedures outlined by AOAC and USDA.

**DISCLAIMER:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Information on this form is furnished solely for the purpose of compliance with the Occupational Safety and Health Act and shall not be used for any other purpose. Mark's urges the customers receiving this Safety Data Sheet to study it carefully to become aware of the hazards, if any, of the product involved. In the interest of safety, you should notify your employees, agents, and contractors of the information on the sheets. The information herein has been compiled from sources believed to be reliable, up-to-date, and is accurate to the best of our knowledge. However, Mark's cannot give any guarantees regarding information from other sources, and expressly does not make warranties, nor assumes any liability for its use.