



# LIQUIZYME

NFPA/HMIS : Health -1  
Flammability - 0  
Reactivity - 0

Complies With USDL Safety and Health Regulations, (29 CFR 1910.200)  
Material Safety Data Sheet  
US Department Of Labor

## SECTION - 1 CHEMICAL AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Liquizyme  
**PRODUCT USE:** Enzymatic cleaner

American Formula  
4720 Frederick Drive SW  
Atlanta, GA 30336

**EMERGENCIES:** 1-800-255-3924  
**REVISION DATE:** 03/30/05

## SECTION - 2 COMPOSITION ON INGREDIENTS

CAS #	CHEMICAL NAMES	Wt%	TLV	(UNITS)
9016-45-9	Nonoxynol	< 8.0	N/E	

N/E = not established

## SECTION - 3 HAZARDS INFORMATION

**PRIMARY ROUTE(S) OF ENTRY:** Skin contact /absorption and inhalation

**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** Gastrointestinal irritation (nausea, vomiting, diarrhea), irritation to nose, throat, and respiratory tract.

**TARGET ORGAN EFFECTS:** None expected.

### IMMEDIATE HEALTH EFFECTS

**EYES:** Exposure may cause noticeable pain, and severe irritation.

**SKIN:** Exposure may cause mild skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, and drying and cracking. Additional symptoms of skin contact may include: allergic reaction. Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal handling and use.

**INHALATION:** Exposure to vapor or mist is possible. Short term inhalation is no likely to cause harmful effects: breathing large amounts may be harmful. Symptoms are more typically seen at air concentrations exceeding the recommended exposure limits.

**INGESTION:** Single dose oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects: swallowing large amounts may be harmful.

### REPRODUCTIVE / DEVELOPMENTAL INFORMATION

No Data

**CARCINOGENIC INFORMATION:** This material is not listed as a carcinogen by IARC, NTP, or OSHA

**LONG TERM EFFECTS:** No Data

## SECTION - 4 FIRST AID MEASURES

**EYES-** Immediately flush with water. Remove contact lenses if applicable, and continue flushing with water. call a physician if irritation persists.

**SKIN-** Flush with water. Wash thoroughly with soap and water. Call physician if irritation persists.

**INHALATION-** If symptoms develop, move victim to fresh air. If symptoms persist call a physician.

**INGESTION-** Do not induce vomiting. Rinse mouth with water, then drink one glass of water. Call a physician immediately. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or is convulsing.

## SECTION - 5 FIRE FIGHTING MEASURES

**FLASH POINT:** No Flash at Boil (C.C. method)

**EXPLOSIVE LIMITS:** Not Applicable

**AUTOIGNITION TEMPERATURE:** Not Applicable

**HAZARDOUS PRODUCTS OF COMBUSTION:** Not Applicable

**EXTINGUISHING MEDIA:** Not Applicable

**FIRE FIGHTING INSTRUCTIONS:** Avoid contact with this material. Avoid walking in spilled material. Wear protective clothing for skin and eyes

## SECTION - 6 ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Absorb with an inert solid and scoop up for disposal, then rinse soiled area with water down the drain.

**LARGE SPILL:** Stop leak at the source and collect into a suitable container, then treat as a small spill.

## SECTION - 7 HANDLING AND STORAGE

**HANDLING:** Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

**STORAGE:** Store in a cool, dry place. Keep container closed when not in use.

## SECTION - 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**EYE PROTECTION:** Chemical Splash goggle in compliance with OSHA regulations are advised: however , OSHA regulations also permit other type safety glasses. Consult your safety representative.

**SKIN PROTECTION:** Wear rubber gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**RESPIRATORY PROTECTION:** If workplace exposure limits of product or any component are exceeded (see exposure guidelines), NIOSH/OSHA approved air supplied respirator is advised in the absence of proper environmental control. OSHA relations also permit other NIOSH/OSHA respirators (negative pressure type) under specific conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

**ENGINEERING CONTROLS:** Provide sufficient mechanical (general and local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

## SECTION - 9 PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE AND ODOR:** Thin, white liquid with a floral odor  
**pH CONCENTRATE:** 8.0-9.0  
**VAPOR PRESSURE:** Unknown  
**VAPOR DENSITY:** Unknown  
**BOILING POINT:** 212 Degrees Fahrenheit  
**SOLUBILITY IN WATER:** Complete  
**PERCENT VOLATILE:** 90%  
**SPECIFIC GRAVITY:** (H<sub>2</sub>O =1) 1.01 +/- 0.02

## SECTION - 10 STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Stable  
**CONDITIONS TO AVOID:** Temperature Extremes  
**INCOMPATIBILITY:** None  
**HAZARDOUS DECOMPOSITION:** Will not Occur  
**HAZARDOUS POLYMERIZATION:** Will not Occur

## SECTION - 11 TOXICOLOGICAL INFORMATION

No Data Available

## SECTION - 12 ECOLOGICAL INFORMATION

No Data Available

## SECTION - 13 DISPOSAL CONSIDERATION

**Waste Disposal Information:** Dispose of in accordance with all applicable Federal, State, and Local regulations.  
**RCRA Information:** If this material becomes a waste, it would not be considered hazardous under 40 CFR 261.22.

## SECTION - 14 TRANSPORT INFORMATION

**DOT Information 49 CFR 172.101**  
DOT Description: 33440 Class 55  
DOT Hazard Class: Non Hazardous  
Hazardous Component: None  
**Reportable Quantity (RQ) - 49 CFR 172.101**  
Not Applicable

## SECTION - 15 REGULATORY INFORMATION

**US Federal Regulations**  
TSCA (Toxic Substances Control Act) Status  
TSCA (United States) The intentional ingredients of this product are listed.  
CERCLA RQ - 40 CFR 355 Appendix A  
None  
SARA 302 Components 40 CFR Appendix A  
None  
Section 311/312 Hazard Class 40 CFR 370.2 Immediate (X) Delayed (X)  
Fire ( ) Reactivity ( ) Sudden Release of Pressure ( )  
  
SARA 313 Components - 40 CFR 372  
**State and Local Regulations**  
California Proposition 65 None  
California SCAQMD Rule 443.1 VOC's None  
North Carolina Administrative Code 2D.1104 and 2B.0610 None  
South Carolina Regulation 62.5 Standard Number 8 None

## SECTION - 16 OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable and suitable to their circumstances. This information was compiled from current manufacturer's MSDS's of the component parts of the product. as well as other sources, such as: Code of Federal Regulations 29, Revised as of July 1, 1994.

Code of Federal Regulations 40, Revised as of July 1, 1994.

ACGIH, Guide to Occupational Exposure Values, 1996.

ANSI Z129.1-1994, Precautionary Labeling for Hazardous Industrial Chemicals.

Hazard Communication Handbook, A Right To Know Compliance Guide. Craig A. Moyer & Michael Francis. Clark Broadman Company. Ltd. New York, NY 1992

RCRA Regulations and Keyword Index, Compiled and Published by McCoy and Associates, Inc Lakewood, Colorado. 1992.

