



MATERIAL SAFETY DATA SHEET

Last revision: 4/27/2004

SECTION 1 - PRODUCT AND COMPANY INFORMATION

Product Name	Mosquito Magnet® Lurex™, Lurex™ Indoor
General use	Biting insect attractant (outdoor and indoor)
Company Identification	American Biophysics Corp. 140 Frenchtown Road North Kingstown, RI 02852 USA
Telephone number	401-884-3500
Fax number	401-884-6688

SECTION 2 - CHEMICAL COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Cas #	wt %	OSHA PEL	ACGIH TLV
L(+)-Lactic acid (2-hydroxy propionic acid)	79-33-4	20 ~ 40	N/E	N/E
Inert ingredients	Confidential	60 ~ 80	N/E	N/E

Note: N/E = Not Established

N/A = Not Applicable

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Ingredients in the package may be harmful if swallowed or absorbed through the skin. Direct contact with skin or eyes may cause skin irritation or burns and irreversible eye damage. Inhalation of vapor in high concentrations may cause irritation of respiration system.

POTENTIAL HEALTH EFFECTS (Acute and Chronic):

Skin contact and inhalation are expected to be the primary routes of exposure to L(+)-Lactic acid and the ingredients in the product.

L(+)-Lactic acid is irritant to eyes and skin and may cause blurred vision and other severe damage to eyes. Inhalation of vapor is irritant to respiration system and may cause throat pain and cough. Inhalation in high concentrations may cause shortness of breath. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

On the basis of available information, exposure to the inert ingredients in the product is not expected to cause significant adverse human health effects when recommended safety precautions are followed.

CARCINOGENICITY: The ingredients in this product are not listed as a carcinogen by OSHA and not a suspected carcinogen by the National Toxicology Program (NTP) or the International Agency for research on Cancer (IARC).

SECTION 4 - FIRST AID MEASURES

IF THE CHEMICALS IN THE PACKAGE ARE

INHALED: Remove to fresh air. Give oxygen and seek medical help if breathing is difficult.

IN EYES: Rinse immediately with plenty of water. Get medical attention if irritant persists.

ON SKIN: Wash off immediately with soap and plenty of water. Remove contaminated cloth and shoes.

SWALLOWED: Wash out mouth with plenty of water, induce vomiting as directed by medical personnel. Do not give anything by mouth to an unconscious person.

IF EXPOSURE RESULTS FROM BURNING PLASTIC PACKAGES:

Remove to fresh air. Get medical attention if damage on skin or dizziness occur.

SECTION 5 - FIRE FIGHTING MEASURES

Flash point (L+)-Lactic acid: 230°F / 110°C

Flammability: Not determined

Extinguishing media: Water spray, Carbon dioxide, Foam, Dry chemicals.

Special firefighting procedures: Wear self-contained breathing apparatus if a large amount of packages are involved

Fire and explosion hazards: Carbon monoxide and irritating fumes under fire conditions.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTION:

Use personal protective equipment, avoid contact with skin and eyes.

CLEANING UP PROCEDURE:

Take up mechanically and collect materials with cloth or paper towel in suitable container for disposal.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Avoid contacting the evaporation holes with skin, eyes or mouth. Avoid breathing vapor from the evaporation holes. Wash hands thoroughly after handling.

STORAGE: Store unopened package in a cool, dry place.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

VENTILATION: General ventilation is adequate for package storage.

RESPIRATORY PROTECTION: Usually not required.

PROTECTIVE GLOVES: Rubber or latex gloves if handling a large quantity of packages.

EYE PROTECTION: Usually not required.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear gelatin (in a sealed plastic package)
ODOR:	Characteristic acidic
PH (25°C)	Not applicable
DENSITY (g/cm ³):	1.07
VAPOR PRESSURE:	Not determined
DECOMPOSITION TEMPERATURE:	>392°F / 200°C
SOLUBILITY IN WATER:	Partially soluble

SECTION 10 - STABILITY AND REACTIVITY

STABILITY:	Stable under normal, recommended storage and handling conditions (see section 7)
CONDITIONS TO AVOID:	Avoid high temperatures to cause package deformation (>150°F/65°C) or decomposition of ingredients (>392°F/200°C)
MATERIALS TO AVOID:	Strong oxidizers, strong bases and acids
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of carbon
HAZARDOUS POLYMERIZATION:	Does not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Package materials are non toxic, no specific information on package materials. The inert ingredients in the package are considered non toxic and no information available. Data on L(+)-Lactic acid used in the product are summarized below.

ACUTE TOXICITY:	LD50/Oral/rat = 3730 mg/kg LD50/Oral/mouse = 4875 mg/kg LD50/Dermal/rabbit > 2000 mg/kg
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LOCAL EFFECTS:	Eyes-rabbit: severe Skin guinea pig: slight to none Skin rabbit: severe
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Tests on animals have shown that the effect of lactic acid on skin is species dependent. Human Experience and results on guinea pigs have shown that it is an irritant and not corrosive.

MUTAGENIC DATA: Test on bacterial or mammalian cell cultures did not show mutagenic effects.

FURTHER INFORMATION:	L(+)-Lactic acid is naturally formed and metabolized as an important metabolite in human, animals and plants.
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SECTION 12 - ECOLOGICAL INFORMATION

Data on L(+)-Lactic acid used in this product are summarized below. No data available for the inert ingredients

ECOTOXICITY:	LC50/48h/Fish = 320 mg/l EC50/Daphnia = 240 mg/l EC50/Algae = 3500 mg/l(neutral)
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PERSISTENCE/DEGRADABILITY:

L(+)-Lactic acid is readily biodegradable, according to appropriate OECD (Organization for Economic Co-operation and Development) test.

Biochemical oxygen demand (BOD)₅ = 0.45mg O₂/mg

Biochemical oxygen demand (BOD)₂₀ = 0.60mg O₂/mg

Chemical oxygen demand (COD) = 0.90 mg O₂/mg

BIOACCUMULATION: None

FURTHER INFORMATION: Natural product

SECTION 13 - DISPOSAL CONSIDERATIONS

Can be incinerated or land filled, when in compliance with federal, state and local laws and regulations.

Used single package: Discard in trash.

SECTION 14 - TRANSPORTATION INFORMATION

DEPARTMENT OF TRANSFORMATION (DOT): Not regulated

SECTION 15 - REGULATORY INFORMATION

EPA (U.S. Environmental Protection Agency):

Biopesticide Registration: EPA Reg. Number: 72563-2

TSCA (Toxic Substance Control Act) Inventory Item:

Chemical ingredients in this product are listed.

SECTION 16 - OTHER INFORMATION

Mosquito Magnet® is a registered trademark of American Biophysics Corporation.

LUREX™ is a trademark of American Biophysics Corporation (registration pending).

AMERICAN BIOPHYSICS CORPORATION WARRANTS THAT THE PRODUCT CONFORMS TO THE DESCRIPTION IN THIS MSDS AND IS REASONABLE FIT FOR THE PURPOSES SET FORTH ON LABEL AND MSDS, WHEN USED ACCORDING TO DIRECTIONS UNDER NORMAL USE CONDITIONS. NEITHER THIS WARRANTY NOR ANY OTHER WARRANTY OF MERCHANTABILITY FOR A PARTICULAR PURPOSE, EXPRESSED OR IMPLIED, EXTENDS TO THE USE OF THIS PRODUCT CONTRARY TO THE LABEL INSTRUCTIONS; THE BUYER ASSUMES THE RISK OF ANY SUCH USES.