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\*\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*\*

**LACTOBIONIC ACID, 97%**

\*\*\*\* SECTION 1 - CHEMICAL PRODUCT

MSDS Name: LACTOBIONIC ACID, 97%

Catalog Numbers:

16711-0000, 16711-0250, 16711-1000

Synonyms:

\*\*\*\* SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS \*\*\*\*

CAS#	Chemical Name	%
96-82-2	LACTOBIONIC ACID	97%
202-538-3		

Hazard Symbols: None Listed.

Risk Phrases: None Listed.

\*\*\*\* SECTION 3 - HAZARDS IDENTIFICATION \*\*\*\*

EMERGENCY OVERVIEW

Not available.

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin irritation. May be harmful if absorbed through the skin.

Ingestion:

May cause irritation of the digestive tract. May be harmful if swallowed.

Inhalation:  
May cause respiratory tract irritation. May be harmful if inhaled.

Chronic:  
Not available.

\*\*\*\* SECTION 4 - FIRST AID MEASURES \*\*\*\*

Eyes:  
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:  
Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:  
Get medical aid. Wash mouth out with water.

Inhalation:  
Remove from exposure and move to fresh air immediately.

Notes to Physician:

\*\*\*\* SECTION 5 - FIRE FIGHTING MEASURES \*\*\*\*

General Information:  
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:  
In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

\*\*\*\* SECTION 6 - ACCIDENTAL RELEASE MEASURES \*\*\*\*

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:  
Vacuum or sweep up material and place into a suitable disposal container.

\*\*\*\* SECTION 7 - HANDLING and STORAGE \*\*\*\*

Handling:  
Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

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

\*\*\*\* SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION \*\*\*\*

Engineering Controls:  
Use adequate general or local exhaust ventilation to keep airborne

concentrations below the permissible exposure limits.  
Personal Protective Equipment

Eyes:  
splashing                   Wear safety glasses and chemical goggles if  
                                  is possible.

Skin:  
to                            Wear appropriate protective gloves and clothing  
                                  prevent skin exposure.

Clothing:  
                              Wear appropriate protective clothing to minimize  
                                  contact with skin.

Respirators:  
the                          Wear a NIOSH/MSHA or European Standard EN 149  
                                  approved full-facepiece airline respirator in  
                                  positive pressure mode with emergency escape  
                                  provisions.

\*\*\*\* SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*\*

Physical State:               Crystalline powder  
Color:                        white - off-white  
Odor:                         Not available.  
pH:                            1-3(10G/90mlaq.sol.)  
Vapor Pressure:               Not available.  
Viscosity:                    Not available.  
Boiling Point:                Not available.  
Freezing/Melting Point:      113.00 - 118.00 deg C  
Autoignition Temperature:    Not available.  
Flash Point:                  Not available.  
Explosion Limits, lower:      Not available.  
Explosion Limits, upper:      Not available.  
Decomposition Temperature:   Not available.  
Solubility in water:         solution of 10 g in 90 ml water:clear an  
Specific Gravity/Density:  
Molecular Formula:            C12H22O12  
Molecular Weight:             358.29

\*\*\*\* SECTION 10 - STABILITY AND REACTIVITY \*\*\*\*

Chemical Stability:  
    Stable under normal temperatures and pressures.  
Conditions to Avoid:  
    Incompatible materials.  
Incompatibilities with Other Materials:  
    Strong oxidizing agents.  
Hazardous Decomposition Products:  
    Carbon monoxide, carbon dioxide.  
Hazardous Polymerization: Has not been reported.

\*\*\*\* SECTION 11 - TOXICOLOGICAL INFORMATION \*\*\*\*

RTECS#:  
    CAS# 96-82-2 unlisted.

LD50/LC50:

Not available.

Carcinogenicity:

LACTOBIONIC ACID -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

\*\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*\*

\*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS \*\*\*\*

Dispose of in a manner consistent with federal, state, and local regulations.

\*\*\*\* SECTION 14 - TRANSPORT INFORMATION \*\*\*\*

IATA

No information available.

IMO

No information available.

RID/ADR

No information available.

\*\*\*\* SECTION 15 - REGULATORY INFORMATION \*\*\*\*

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 96-82-2: 0

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

None of the chemicals in this product are listed on the DSL/NDSL list.

CAS# 96-82-2 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 96-82-2 is not listed on the TSCA inventory.

It is for research and development use only.

\*\*\*\* SECTION 16 - ADDITIONAL INFORMATION \*\*\*\*

MSDS Creation Date: 7/16/1996 Revision #0 Date: Original.

The information above is believed to be accurate and represents the best

information currently available to us. However, we make no

warranty of  
merchantability or any other warranty, express or implied, with  
respect to  
such information, and we assume no liability resulting from its  
use. Users  
should make their own investigations to determine the suitability  
of the  
information for their particular purposes. In no way shall the  
company be  
liable for any claims, losses, or damages of any third party or  
for lost  
profits or any special, indirect, incidental, consequential or  
exemplary  
damages, howsoever arising, even if the company has been advised  
of  
the possibility of such damages.

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