

MATERIAL SAFETY DATA SHEET

(R) -LACTIC ACID ISOBUTYL ESTER

MSDS NO.016

SECTION 1- MATERIAL/COMPANY IDENTIFICATION

Products Name	(R) Lactic acid isobutyl ester
Company Name	Musashino Chemical (China) Co., Ltd.
Address	No.66 Chunfeng Rd. Economic & Technological Development Zone of Yichun, Jiangxi. 336000 China
Charge Department for MSDS	Safety Management Department
Responsibility for MSDS	Fan Gui-Zeng
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SECTION 2- HAZARDS IDENTIFICATION

Symbols	Xi - Irritant
Skin contact	Irritant
Human Health Effects	Vapor may cause irritant of eyes, mucous membranes and skin

SECTION 3- COMPSITION/INFORMATION ON INGREDIENTS

Chemical name	Isobutyl-D(R)-2-hydroxy propionate
Component	99% up
Formula	$\text{CH}_3\text{CH}(\text{OH})\text{COO CH}_2\text{CH}(\text{CH}_3)_2$
Molecular Weight	146.19
CAS No.	61597-96-4

SECTION 4- FIRST AID MEASURES

General advice	Show this safety data sheet to the doctor in attendance.
Skin contact	Immediately remove all contaminated clothing, including footwear. Flush skin and hair with plenty of water or tepid water.
Eye contact	Immediately hold eyelids apart and flush eyes with plenty of water at least 15minutes. If irritation persists, call a physician.
Inhalation	Immediately remove to fresh air. If breathing is difficult, give oxygen, call a physician.
Ingestion	If swallowed, drink plenty of water or salt water. If in doubt, Call a physician immediately.

SECTION 5- FIRE FIGHTING MEASURES

Specific hazards	Flammable. Can be happen explosion in fire and high
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Extinguishing media	temperature. Chemical reaction with strong oxidizing agents. Burning produces irritant fumes Remove a source of fire. Use a fire extinguisher. Cool the container with plenty of water. Standing upwind side and wear breathing apparatus. Water, carbon dioxide (CO ₂), foam, dry power.
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SECTION 6- ACCIDENTAL RELEASE MEASURES

Personal precautions	Prepare extinguishing media before starting on cleaning. Wear protective clothing and self-contained breathing apparatus. Avoid contact with skin and eyes. Take person refuge in upwind side. Keep person out the place. Keep away from heat and flames promptly.
Environmental precautions	Prevent further leakage or spillage, Prevent product from entering drains
Methods for cleaning up	In case of small quantities of leakage, pack an absorbent material into container after absorbing spilled material. Clean up the leaked place with plenty of water. In case of large quantities of leakage, Tighten rope around the leakage place. Flush spilled material into container after leading to suitable retaining areas stopping the fluid by sand and the like. Clean up the leaked place with plenty water.

SECTION 7- HANDLING AND STORAGE

Handling	Caution not to generate firer, as to fire, static electricity, and spark. Take account of preventing the materials from leak. Wear protective clothing to prevent from contacting and inhaling the materials.
Storage	Avoid direct rays of the sun. Keep container tightly closed. Keep away from high temperature substances. Use earth and anti-explosive electric-apparatus in storage areas.
Packaging material	Polyethylene plastic containers etc.

SECTION 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures to reduce exposure	Ensure adequate ventilation, especially in confined areas.
Personal protection equipment	Wear personal protective equipment. Avoid contact with skin and eyes. Especially if necessary, wear organic gas

Hygiene measures mask, air mask, or self-contained breathing apparatus. Set up safety shower, hands washer and eyes washer nearby handling the materials. Indicate the positions distinctly. When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Transparent, Clear liquid having a characteristic odor.
Boiling point	73°C at 17 hPa-lit
Density (20°C)	0.963~0.983
Vapor pressure	No data available
Melting point	No data available
Flash point	67°C (closed cup)
Auto ignition temperature	No data available
Explosion limits	No data available
Solubility	No data available
Viscosity	No data available

SECTION 10- STABILITY AND REACTIVITY

Stability	Stable at normal conditions. Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, flames and sparks
Materials to avoid	Strong oxidizing agents
Hazardous decomposition products	No data available

SECTION 11- TOXICOLOGICAL INFORMATION

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity-single exposure	No data available
Specific target organ	No data available

toxicity-repeated exposure

Aspiration hazard

Additional information

No data available

RTECS : No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12- ECOLOGICAL INFORMATION

Solubility

Completely soluble, readily biodegradable and hydrolyses, no hazardous polymerization.

SECTION 13- DISPOSAL CONSIDERATIONS

Waste from residues/unused products

Burn up absorbent sand gradually in the opened incinerator after absorbing the materials, or burn up the materials directly in the incinerator through atomizer.

Contaminated packaging

Decontaminate empty containers with water, dilute with water and flush to waste system. Recycle containers if possible.

Further information

Treatment, storage, transportation, and disposal must be in accordance with local regulations.

SECTION 14- TRANSPORTATION INFORMATION

UN Number

ADR/RID: Not dangerous goods

IMDG : Not dangerous goods

IATA : Not dangerous goods

UN PROPER SHIPPING NAME

ADR/RID: Not dangerous goods

IMDG : Not dangerous goods

IATA : Not dangerous goods

Transport hazard class

ADR/RID: Not dangerous goods

IMDG : Not dangerous goods

IATA : Not dangerous goods

Packaging group

ADR/RID: Not dangerous goods

IMDG : Not dangerous goods

IATA : Not dangerous goods

Environmental hazards

ADR/RID: No

IMDG : No

IATA : No

Special precautions for user

No data available

SECTION 15- REGULATORY INFORMATION

US Regulations

US TSCA Inventory Status Y

R-Phrases

R36/37-Irritation to eyes and respiratory system.

S-Phrases

S26- In case of contact with eyes, rinse immediately with plenty



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China Regulations of water and seek medical advice.
The safe use of chemicals regulation workplace

SECTION 16- OTHER INFORMATION

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