



SAFETY DATA SHEET

Version: 1.0


Revision date: 11/2016

L - LACTIC ACID

SECTION 1 . Identification of the product and the company

Product Name	L- lactic acid
Trade name	BASLAFOL 80,85,88,90,92 BASLAFEL 80,85,88,90,92 BASLAHSL 80,85,88,90,92 BASLAPML 88,90 BASLAFDL 80
Chemical name	2-hydroxypropionic acid
Formula	CH ₃ CH(OH)COOH
Trade name	BASAC, All grade.
Use of the substance	Food industry. Animal food-stuff industry. Pharmaceutical industry. Cosmetic ingredient.
Uses advised against	No information available
Supplier	Shandong baisheng biotechnology CO., LTD. NO.6 west XI'AN road,economic development zone, Yanzhou, Shandong ,China TEL: +86-537-3301278 FAX: +86-537-3891339
Emergency Telephone	Shandong baisheng biotechnology CO., LTD. TEL: +86-537-3301278

SECTION 2. Hazards identification

Hazards Category	Skin corrosion / Irritation category 2 Serious Eye Damage/Eye Irritation category 1
Allocation of label Elements	
Pictogram(s)	Corrosive 
Signal word	Danger
Hazard Statements	H315 - Causes skin irritation. H318 - Causes serious eye damage.
Precautionary statements	P264 - Wash hands thoroughly after handling P280 - Wear protective gloves, protective clothing, eye protection, face protection. P302/352 - IF ON SKIN: wash with plenty of soap and water

SHANDONG BAISHENG BIOTECHNOLOGY CO., LTD.

NO.6 WEST XI'AN ROAD, ECONOMIC DEVELOPMENT ZONE, YANZHOU, SHANDONG ,CHINA
TEL: +86-537-3301278 FAX: +86-537-3891339 MOBILE:+86-18253713488



SAFETY DATA SHEET

Version: 1.0

Revision date: 11/2016

L - LACTIC ACID

P304/340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

P305/351/338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P332+P313 - If skin irritation occurs: Get medical advice/attention

Environmental Hazard

Contains no substances known to be hazardous for the environment.

Other hazards which do not result in classification

None known

SECTION 3. Composition / Information on ingredients

Substance name	CAS No/ EINECS No	Weight %
L- Lactic acid	79-33-4/ 201-196-2/	50 - 92

SECTION 4. First aid measures

Inhalation	Remove victim into fresh air. Get medical attention immediately if symptoms occur.
Skin contact	Remove contaminated clothing and shoes. Wash skin thoroughly with mild soap and plenty of water. Consult a physician
Eye contact	Rinse immediately with plenty of water. Remove any contact lens, if present and easy to do. Continue to rinse eye with clean water for at least 15 minutes. Consult a physician
Ingestion	Rinse mouth Consult a physician
Notes to physician	Treat symptomatically. If breathing is difficult, give oxygen. Keep victim under observation. Symptoms may be delayed

SECTION 5. Fire-fighting measures

Suitable Extinguishing media Water spray, Foam, Dry powder, Carbon dioxide(CO₂)

Unsuitable Extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Special Hazard None in particular

Firefighting instructions Cool down the containers exposed to heat with a water spray.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

Protective Equipment for firefighters Wear self-contained breathing apparatus and protective suit.

SHANDONG BAISHENG BIOTECHNOLOGY CO., LTD.

NO.6 WEST XI'AN ROAD, ECONOMIC DEVELOPMENT ZONE, YANZHOU, SHANDONG ,CHINA
TEL: +86-537-3301278 FAX: +86-537-3891339 MOBILE:+86-18253713488



SAFETY DATA SHEET

Version: 1.0

Revision date: 11/2016

L - LACTIC ACID

SECTION 6. Accidental release measures

Personal precautions	Evacuate personnel to safe areas. Avoid contact with skin and eyes. Do not breathe vapours. Use personal protective equipment. Ensure adequate ventilation.
Environmental precautions	Prevent entry to sewers and public waters.
Methods for cleaning up	Use suitable disposal containers. Small spills may be neutralized with lime water slurry or soda ash and flushed with large amounts of cold water. Clean up any spills as soon as possible, using an absorbent material to collect it.

SECTION 7. Handling and storage

General	Avoid all unnecessary exposure.
Storage	Provide local exhaust or general room ventilation to minimize vapour concentrations. Store in glass, stainless steel, plastic or epoxy lined receptacles.
Handling	Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Ensure prompt removal from eyes, skin and clothing. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 8. Exposure control/ personal protection

DNEL	592 mg/m ³ (short term - inhalation - worker) 35.4 mg/kg/d (Oral - general population) 296 mg/m ³ (Inhalation - general population)
------	---

PNEC	1.3 mg/l water (fresh water) 10 mg/l (sewage treatment plant)
------	--

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment:

- Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment. Recommended filter type : P2
- Skin and body protection	Wear recommended personal protective equipment.
- Eye protection	Safety glasses with side-shields.
- Hand protection	Protective gloves made of rubber, Break through time: > 8 hours.

SHANDONG BAISHENG BIOTECHNOLOGY CO., LTD.

NO.6 WEST XI'AN ROAD, ECONOMIC DEVELOPMENT ZONE, YANZHOU, SHANDONG ,CHINA
TEL: +86-537-3301278 FAX: +86-537-3891339 MOBILE:+86-18253713488



SAFETY DATA SHEET

Version: 1.0

Revision date: 11/2016

L - LACTIC ACID

Industrial hygiene

Wash clothing before re-using.
Remove contaminated clothing and shoes.
Provide good ventilation in process area to prevent formation of vapour.
Do not eat, drink or smoke when using this product.

Environmental exposure controls

The product should not be allowed to enter drains, water courses or the soil.

SECTION 9. Physical and chemical properties

Physical state	Liquid.
Colour	Colourless to light yellow.
Odour	Characteristic.
Taste	Acidic.
pH value	<2 at 25°C
Boiling point	110 - 130°C
Decomposition point	>200°C
Density	1.19 - 1.25
Viscosity at 25°C	5 - 60 mPa.s
Solubility in water	Complete.
Flash point	Not applicable.
Explosion limits	Not applicable.
Evaporation rate	Not applicable
Flammability (solid, gas)	No information available
Vapour pressure	Not applicable.
Autoignition temperature	> 400°C
Decomposition temperature	> 200°C

SECTION 10. Stability and reactivity

Stability	Stable under recommended storage conditions
Materials to avoid	Oxidizing agents.
Conditions to avoid	Temperature above 200°C.
Hazardous decomposition products	None under normal use.
Hazardous polymerisation	None known.
Hazardous reactions	No information available.

SHANDONG BAISHENG BIOTECHNOLOGY CO., LTD.

NO.6 WEST XI'AN ROAD, ECONOMIC DEVELOPMENT ZONE, YANZHOU, SHANDONG ,CHINA
TEL: +86-537-3301278 FAX: +86-537-3891339 MOBILE:+86-18253713488



SAFETY DATA SHEET

Version: 1.0

Revision date: 11/2016

L - LACTIC ACID

SECTION 11. Toxicological information

Acute toxicity	No known effect
LD50 oral rat	3543 mg/kg
LD50 dermal rabbit	>2000 mg/kg
LC50 inhalation rat	>7.94 mg/l 4h
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye damage
Respiratory or skin sensitisation	No known effect
Carcinogenicity	No ingredient listed as a carcinogen
Germ cell mutagenicity	No known to cause heritable genetic damage
Reproductive toxicity	No known to cause birth defects or have a deleterious effect on a developing fetus. Not know to adversely affect reproductive functions and organs
Specific target organ toxicity (single exposure)	No known effect
Specific target organ toxicity (repeated exposure)	No known effect

SECTION 12. Ecological information

Ecological effects information	No ingredient known to be hazardous for the environment.
LC50 fish	130 mg/L 96h oncorhynchus mykiss
LC50 fish	320 mg/l 96h Danio rerio
EC50 algae	>2800 mg/l 72h (Pseudokirchnerella subcapitata
EC50 daphnia	130 mg/l 48h Daphnia magna
Persistence and degradability	Product is biodegradable.
Bioaccumulative Potential	Not bioaccumulate
Mobility in soil	No information available
PBT and vPvB assessment	This substance is not considered to be persistent, bioaccumulative and toxic(PBT) or very persistent and very bioaccumulative(vPvB)
Other adverse effects	No additional information available

SECTION 13. Disposal considerations

Waster disposal methods	Dispose in a safe manner in accordance with local/national regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

SHANDONG BAISHENG BIOTECHNOLOGY CO., LTD.

NO.6 WEST XI'AN ROAD, ECONOMIC DEVELOPMENT ZONE, YANZHOU, SHANDONG ,CHINA
TEL: +86-537-3301278 FAX: +86-537-3891339 MOBILE:+86-18253713488



SAFETY DATA SHEET

Version: 1.0

Revision date: 11/2016

L - LACTIC ACID

SECTION 14. Transport information

General information Not classified as dangerous in the meaning of transport regulations.

SECTION 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

No additional information available

Registration Listed on the ASIA-PAC inventory
Listed on the EEC inventory EINECS – EEC Directive 79/831, sixth
Listed on the United States TSCA inventory
Listed on the Japanese ENCS inventory
Listed on the Canadian NDSL inventory
Listed on the ECL inventory
Listed on the IECSC

SECTION 16. Other information

Disclaimer

This information provided on this MSDS is based on our current knowledge, information and belief at the date of its publication. The information given is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

End of Document

SHANDONG BAISHENG BIOTECHNOLOGY CO., LTD.

NO.6 WEST XI'AN ROAD, ECONOMIC DEVELOPMENT ZONE, YANZHOU, SHANDONG, CHINA
TEL: +86-537-3301278 FAX: +86-537-3891339 MOBILE: +86-18253713488