

## Latic acid

### 1 Product identification

<u>Product name</u>	<b>LACTIC ACID</b>
<u>Manufacture</u>	Room 1138, 2th Building , LvdiHuichuang international square, NO.6, Kexing Road, Baiyun District, Guangzhou, Guangdong, China. Tel: 020-36261692 36261697 Fax: 020-36261697 Website: www.silat-group.com

### 2 Composition and ingredient information

<u>Chemical name</u>	2-Hydroxy propionic acid
<u>Component</u>	Lactic Acid ( 90% 、 88% 、 80% 、 50% aqueous solution)

### 3 Possible hazard

<u>Symptoms of acute over-exposure</u>	None.
<u>Carcinogen</u>	None
<u>Hazards for the environment</u>	None
<u>Burning and explosion hazards</u>	None

### 4 First aid measures

<u>Skin contact</u>	Immediately remove all contaminated clothing, including footwear flush skin and hair with plenty of water or tepid water
<u>Eye contact</u>	Flush with plenty of water for at least 15 minutes and seek medical advice if necessary
<u>Inhalation</u>	Immediately remove to fresh air If breathing is difficult, give oxygen, call a physician.
<u>Ingestion</u>	If swallowed, give plenty of water or salt water. If in doubt, Call a physician immediately.
<u>Other first aid information</u>	Not Known

### 5 Fire fighting measures

<u>Extinguishing media</u>	Water, carbon dioxide, foam, dry powder.
<u>Unusual fire fighting hazards</u>	Not known
<u>Special fire fighting procedure</u>	Not known
<u>Other recommendations</u>	Thermal decomposition can lead to release of irritating gases and vapors.

### 6 Accidental release measures

<u>Personal precautions</u>	Wear chemical splash goggles, rubber boots and rubber gloves. Avoid contact with skin and eyes.
<u>Environmental precautions</u>	Prevent further leakage or spillage.
<u>Cleanup procedures</u>	Neutralized the materials with sodium carbonate or sodium hydrogen carbonate. neutralized solution with sand or diatom earth. Pack a absorbent material into a properly labeled container after absorbing. Clean up the leaked place with plenty of water

## 7 Handling and Storage

<u>Handling precautions</u>	Avoid eye and skin contact
<u>Storage precautions</u>	Keep container tightly closed. Keep in properly labeled containers.  Store in areas shielded the light, and below room temperature. Keep away from strong bases storage areas.
<u>Packaging material</u>	Polyethylene plastic containers etc.
<u>Other information</u>	-

## 8 Exposure controls and personal protection

<u>8.1 Exposure controls</u>	See 7.1
<u>8.2 Engineering control measures</u>	No special control measures necessary
<u>8.3 Personal protective equipment</u>	
Respiratory protection	Use appropriate protection, i.e. a cartridge mask
Hand protection	Gloves
Eye protection	Safety glasses
Skin protection	Protective cloth
Other	-

## 9 Physical and chemical properties

### 9.1 Appearance

Physical state	Liquid
Color	Colorless
Odor	Light

### 9.2 Safety related information

pH Value	< 2 (25°C)
Density(20°C)	1.12~1.22g/ml (50~90% lactic acid solution)
Boiling point	125°C(90% solution)
Flash point	94,0 °C
Decomposition temperature	>200°C
solubility	Water, alcohol

## 10 Stability and reactivity

<u>Conditions to avoid</u>	Avoid temperatures above 200°C
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<u>Materials to avoid</u>	Avoid oxidizing agents, alkaline substances. Exothermic reaction with alkaline substances.
<u>Hazardous decomposition products</u>	Stable at normal conditions. Hazardous polymerization does not occur.

## 11 Toxicological information

<u>Acute toxicity</u>	LD50 4875 mg/kg bw. (mouse, oral) (as 100% lactic acid)
<u>Irritation</u>	500 mg/24 hr sev. (rabbit skin)
<u>Skin Corrosive</u>	Corrosive
<u>Carcinogenicity</u>	Bacterial mutagenicity test: Negative irritant

## 12 Environmental information

<u>Mobility</u>	Completely soluble, readily biodegradable does not occur hazardous polymerization
<u>Chemical Oxygen Demand (COD)</u>	0.9 g O <sub>2</sub> /g
<u>Bioaccumulative potential</u>	Not determined
<u>Ecological toxicity</u>	Not determined
<u>Other information</u>	Dispose in accordance with proper working practice. Avoid soil, surface water and water-bearing stratum contamination

## 13 Disposal considerations

<u>Waste from residues/unused products</u>	Burn up absorbent sand gradually in the opened incinerator after absorbing the materials, or burn up the materials directly in the incinerator through atomizer
<u>Contaminated packaging</u>	Decontaminate empty containers with water, dilute with water and flush to waste system. Recycle containers if possible.

## 14 Transport information

Not classified as hazardous under transport regulations.

## 15 Regulatory information

<u>Supply classification and labeling</u>	No special packaging and labeling required
<u>National legislation</u>	For further information we recommend to consider the corresponding appropriate national legislation.

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