

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

## Section 1: Identification

Product Name Lactic Acid USP 88% L(+)

Commercial Name Not available

Product Use Food additive, Specialty chemical

Restrictions On Use Not available

Product Code 50-3110

**Company** PCCA

9901 South Wilcrest Houston, TX 77099 Phone: 1-800-331-2498 Fax: 1-800-874-5760 In case of emergency contact: CHEMTREC (24hr) 1-800-424-9300

## Section 2: Hazard(s) Identification

OSHA Haz Com:

Skin corrosion/irritation Category 2 - H315 Serious eye damage/eye irritation Category 1 - H318

CFR 1910.1200

Signal Word DANGER

Hazard Statement(s) Causes skin irritation. Causes serious eye damage.

Pictogram(s) or Symbol(s)



## Precautionary Statement(s):

Prevention P280 - Wear protective gloves/protective clothing/eye protection/face protection

Response P302 + P352 - IF ON SKIN: Wash with plenty of water and soap P305 + P351 + P338 - 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/doctor P362 - Take off contaminated

clothing

Storage Not available Disposal Not available.

#### Section 3: Composition/Information on Ingredients

Substance/Mixture Substance

Components Lactic Acid USP 88% L(+)

% By Weight 100
CAS# 79-33-4
Molecular Weight 90.08 g/mole
Chemical Formula C3H6O3

**Synonym(s)** 2-Hydroxypropionic acid

**Mixtures** 

 Name
 CAS#
 % by Weight
 TLV/PEL
 LC50/LD50

 {L-(+)-}Lactic acid
 79-33-4
 100
 ORAL (LD50): Acute: 3730 mg/kg [Rat].

 1870 mg/kg [Guinea pig].
 1870 mg/kg [Guinea pig].

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#### Section 4: First-Aid Measures

**Inhalation** Move to fresh air. Get medical attention immediately if symptoms occur.

**Skin Contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Consult a physician.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue

flushing for at least 15 minutes. Consult a physician.

Ingestion Rinse mouth. Get medical attention immediately if symptoms occur.

Symptoms/Effects

Acute If in eyes: Burning feeling, Redness, Pain. If on skin: Itching, Redness

Delayed If in eyes: Burning feeling, Redness, Pain. If on skin: Itching, Redness

#### **Immediate Medical Attention**

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.

#### **Products of Combustion**

Not available

## **Firefighters Special Equipment and Precautions**

Evacuate non-essential personnel. Move containers from fire area if you can do it without risk. Keep containers and surroundings cool with water spray. Prevent fire extinguishing water from contaminating surface water or the ground water system. Wear self-contained breathing apparatus and protective suit.

### Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Evacuate personnel to safe areas. Do not touch or walk through spilled material. Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Use personal protective equipment. Ensure adequate ventilation. Environmental precautions: Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Methods and material for containment and cleaning up: Large amounts: Prevent further leakage or spillage if safe to do so. Dike to collect large spills. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small amounts: Wipe up with absorbent material (e.g. cloth, fleece). After cleaning, flush away traces with water. Never return spills in original containers for re-use.

#### Section 7: Handling and Storage

Precautions for safe handling: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Ensure adequate ventilation. Wear personal protective equipment. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. See annex for more detailed information. Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Keep containers tightly closed in a cool, well-ventilated place. Incompatible with oxidising agents.

## Section 8: Exposure Controls/Personal Protection

Exposure Limits
Engineering Controls

Contains no substances with occupational exposure limit values.

Ensure adequate ventilation, especially in confined areas. Keep at temperatures below 200 °C / 392 °F.

Ensure that eyewash stations and safety showers are close to the workstation location. See annex for

more detailed information.

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#### **Personal Protection**

Eye protection: Face-shield (EN166). Hand Protection: Protective gloves (EN374): Butyl rubber. Glove thickness: 0.5 mm . Break through time: >8 hours. Unsuitable materials: Natural Rubber, Nitrile rubber, Fluorinated rubber, PVC. Skin and body protection: Long sleeved clothing. Chemical resistant apron. Boots. Respiratory protection: Aerosol or mist formation: In case of insufficient ventilation wear suitable respiratory equipment (APF). Recommended Filter Type A, Brown. Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice. Workers must be trained in the proper use and handling of this product as required under applicable regulations. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before re-use. Environmental Exposure Controls: The product should not be allowed to enter drains, water courses or the soil.

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## Section 9: Physical and Chemical Properties

Appearance Colourless / Yellowish. Clear. Liquid

Odor Characteristic.
Odor Threshold Not available.

Melting PointNot availablepH< 1.2 (@25 °C)</th>Freezing PointNot available.Vapor PressureNot availableBoiling Point/Range120-130 °C / 249-266 °F (rVapor DensityNot available.

Decomposition temperature > 200 °C / > 392 °F Viscosity 5-60 mPa\*s @ 25°C

Partition Coefficient: -0.62 Evaporation Rate Not available.

n-octanol/water

Flash Point Not available. Autoignition temperature > 400 °C / > 752 °F (solution 93

Flammability Not available.

Flammability or Explosive Limits:

Lower Not available.Upper Not available.

Solubility(ies) Not available

**Other** Surface tension 44-50 mN/m (@ 50-90%)

## Section 10: Stability and Reactivity

Reactivity Not available.

**Chemical Stability** Stable under recommended storage conditions.

Hazardous Polymerization Not available.

Conditions to Avoid Avoid temperatures above 200 °C (392°F).

Incompatible Materials Oxidizing agents
Hazardous Decomposition Products Not available.

### Section 11: Toxicological Information

RTECS OD2800000

## **Acute Toxicity**

Ingestion No known effect. Skin contact No known effect ( LD50 Dermal, Rabbit: >2000 mg/kg ). Inhalation No known effect LD50 Oral: 3543 mg/kg ( Rat, female ) 4936 mg/kg ( Rat, male ) LD50 Dermal: >2000 mg/kg ( Rabbit ) LC50 Inhalation: >7.94 mg/L ( Rat ) 4h mist

#### Skin Corrosion/Irritation

Causes skin irritation.

### Serious Eye Damage/Irritation

Causes serious eye damage.

### Respiratory or Skin Sensitization

Not available.

## **Germ Cell Mutagenicity**

Not known to cause heritable genetic damage

## Carcinogenicity

Contains no ingredient listed as a carcinogen.

## **Reproductive Toxicity**

Not known to cause birth defects or have a deleterious effect on a developing fetus. Not known to adversely affect reproductive functions and organs.

## **Routes of Entry**

Eye contact. Inhalation. Ingestion.

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## Symptoms Related to Exposure

Not available.

#### **Potential Health Effects**

Not available.

Target Organ(s) Not available.

## Section 12: Ecological Information

#### **Ecotoxicity**

Contains no substances known to be hazardous for the environment.

#### Persistance and Degradability

Readily biodegradable

#### **Bioaccumulative Potential**

Does not bioaccumulate

#### **Mobility in Soil**

Not available.

#### Other Adverse Effects

Not available.

### Section 13: Disposal Considerations

#### **Waste Disposal**

Dispose of in accordance with local regulations

### **Disposal of Container**

Empty containers should be taken to an approved waste handling site for recycling or disposal.

## Other Considerations

Not available.

## Section 14: Transport Information

#### **DOT Classification**

Not classified as dangerous in the meaning of transport regulations.

## Section 15: Regulatory Information

#### Regulations

Restrictions on use None. Other Regulations No information available.

## Other

HMIS ratings: Health:1 Flammability: 0 Physical hazarad:0 NFPA ratings: Health: 1 Flammability: 0

Instability:0

## Section 16: Other Information

This Information only concerns the above - mentioned product and is not valid if used with other product(s) or In any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

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