

## LACTIC ACID (HYDROXY PROPIONIC ACID)

### SECTION 1: PRODUCT IDENTIFICATION

**Product Name:** LACTIC ACID (HYDROXY PROPIONIC ACID)

**Product Code:** 5030

**CAS#:** Not available

**Synonym:** Not available

**Chemical Name:** Not available

**Chemical Formula:** Not available

**Formula Weight:** Not available

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

**Composition:**

**Name:** LACTIC ACID (HYDROXY PROPIONIC ACID)

**Toxicological Data on Ingredients:** **Toxicological Data on Ingredients:** Classification according to Regulation (EC) No 1272/2008:

Skin irritation (Category 2), H315

Serious eye damage (Category 1), H318

### SECTION 3: HAZARDS IDENTIFICATION

**Potential Acute Health Effects:** Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (corrosive), of eye contact (corrosive). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns.

**Potential Chronic Health Effects:**

**Carcinogenic Effects:** Not available

**Mutagenic Effects:** Mutagenic for bacteria and/or yeast

**Teratogenic Effects:** Not available

**Developmental Toxicity:** Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection

### SECTION 4: FIRST AID MEASURES

**Eye Contact:** Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention immediately.

**Skin Contact:** immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Thoroughly clean clothes and shoes before reuse.

**Serious skin contact:** Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**Serious Inhalation:** Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. **WARNING:** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention



**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

**Serious Ingestion:** Not available

## SECTION 5: FIRE FIGHTING MEASURES

**Flammability of the Product:** May be combustible at high temperature

**Auto-Ignition Temperature:** Not Available

**Flash Points:** CLOSED CUP: 112.78°C (235°F)

**Flammable Limits:** Not Available

**Products of Combustion:** Carbon oxides

**Fire Hazards in Presence of Various Substances:** Slightly flammable to flammable-in presence of open flames and sparks, of heat. Non-flammable in presence of shocks

**Explosion Hazards in Presence of Various Substances:**

**Risks of explosion of the product in presence of mechanical impact:** Not available

**Risks of explosion of the product in presence of static discharge:** Not available

**Fire Fighting Media and Instructions:**

**SMALL FIRE:** Use DRY chemical powder

**LARGE FIRE:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special Remarks on Fire Hazards:** Not Available

**Special Remarks on Explosion Hazards:** Not Available

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Small Spill:** Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.

**Large Spill:** Corrosive liquid. Stop leak if without risk. If the product is in its solid form: Use a shovel to put the material into a convenient waste disposal container. If the product is in its liquid form: Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Absorb with an inert material and put the spilled material in an appropriate waste disposal. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Neutralize the residue with a dilute solution of sodium carbonate

## SECTION 7: HANDLING AND STORAGE

**Precautions:** Keep locked up. Keep container dry. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Personal Protection:** Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves, Boots.

**Personal Protection in Case of a Large Spill:** Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not Available

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	:	Liquid. (Viscous/Syrupy liquid)
Odor	:	Not available
Taste	:	Not available
Color	:	Not available
Molecular Weight	:	Not available
PH	:	Acidic
Boiling Point	:	Not available
Melting Point	:	Not available
Critical Temperature	:	Not available
Specific Gravity	:	Not available
Vapor Pressure	:	Not available
Vapor Density	:	Not available
Volatility	:	Not available
Odor Threshold	:	Not available
Water/Oil Dist. Coeff.	:	Not available
Ionicity (in Water)	:	Not available
Dispersion Properties	:	Not available
Solubility	:	Soluble in water

### SECTION 10: STABILITY AND REACTIVITY DATA

**Stability:** The product is stable.

**Instability Temperature:** Not available

**Conditions of Instability:** Excess heat, incompatible materials

**Incompatibility with various substances:** Reactive with oxidizing agents, alkalis

**Corrosivity:** Slightly corrosive in presence of aluminum, of copper, of stainless steel(304), of stainless steel(316). Non-corrosive in presence of glass

**Special Remarks on Reactivity:** Not available

**Special Remarks on Corrosivity:** Caustic in concentrated solutions. Severe corrosive effect on brass. Minor corrosive effect on bronze

**Polymerization:** Will not occur

### SECTION 11: TOXICOLOGICAL INFORMATION

**Routes of Entry:** Absorbed through skin. Eye contact

**Toxicity to Animals:**

**LD<sub>50</sub>:** Oral - Rat - 3543 mg/kg

Dermal - Rabbit- 2000 mg/kg

**Chronic Effects on Humans:** MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast

**Other Toxic Effects on Humans:** Extremely hazardous in case of inhalation (lung corrosive) Very hazardous in case of skin contact (irritant), of ingestion Slightly hazardous in case of skin contact (corrosive), of eye contact (corrosive)

**Special Remarks on Toxicity to Animals:** Not available

**Special Remarks on Chronic Effects on Humans:** May affect genetic material. May cause adverse reproductive effects and birth defects based on animal data

**Special Remarks on other Toxic Effects on Humans:** Causes severe skin irritation. Possible burns or ulcerations upon prolonged overexposure. May cause skin rash (in milder cases). It may be absorbed by the skin. Causes severe irritation and possible burns. May cause chemical conjunctivitis and corneal damage. Prolonged or repeated skin contact/absorption may affect the brain, urinary system and blood. May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea, and possible burns (in the throat, mouth, and stomach). May cause severe and permanent



damage to the digestive tract. May cause perforation of the digestive tract. May also cause shortness of breath and in severe cases may produce cyanosis and vascular collapse

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity:**

**LC50:** Not available

**BOD and COD:** Not available

**Products of Biodegradation:** Possibly hazardous short-term degradation products are not likely. However, long term degradation products may arise

**Toxicity of the Products of Biodegradation:** The products of degradation are less toxic than the product itself.

**Special Remarks on the Products of Biodegradation:** Not available

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## SECTION 14: TRANSPORT INFORMATION

**DOT Classification:** Class 8: Corrosive material

**Identification:** UNNA: 3265: Corrosive liquid, acidic, organic, n.o.s. (Lactic acid) PG: III

**Special Provisions for Transport:** Not applicable

## SECTION 15: REGULATORY INFORMATION

**WHMIS (Canada):** CLASS E: Corrosive liquid

**DSCL (EEC):** Not applicable

**HMIS (U.S.A.):**

**Health Hazard:** 3

**Fire Hazard:** 1

**Reactivity:** 0

**Personal Protection:** E

**National Fire Protection Association (U.S.A.):**

**Health:** 3

**Flammability:** 1

**Reactivity:** 0

**Specific hazard:**

**Protective Equipment:**

Gloves, Lab coat, Safety glasses, Dust respirator - be sure to use an approved/certified respirator or equivalent

## SECTION 16: OTHER INFORMATION

**References:**

H315 - Skin irritation (Category 2) - Causes skin irritation

H318 - Serious eye damage (Category 1) - Causes serious eye damage.

**Other Special Considerations:** Not available

The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for user's obligation to investigate and determine the suitability of the information for their particular purpose.

