# SAFETY DATA SHEET

## Hazardous Chemical, Dangerous Goods

## 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** **LACTIC ACID >10% (w/w)**
**Recommended Use:** Process Chemical

**Supplier:** Hygiene Technologies Ltd
**Street Address:** 28 Rangitane Rd
Whakatu, Hastings 4102
New Zealand

**Telephone:** + 64 6 876 4111 or 0800 732 525
**Facsimile:** + 64 6 878 3802

**Emergency**
**Telephone number:** **National Poisons Centre (24/7)**
**0800 POISON** (0800 764 766)

## 2. HAZARDS IDENTIFICATION

**This material is hazardous according to criteria of EPA New Zealand.**



**Signal Word**
DANGER

**Hazard Classifications**
Skin corrosion – Category 1C
Eye damage – Category 1

**Group Standard 2020**
HSR002526

**Hazard Statements**
**H314** Causes severe skin burns and eye damage.

**Prevention Statements:**
**P102** Keep out of reach of children.
**P103** Read label before use.
**P260** Do not breathe mist, vapours or spray.
**P264** Wash hands, face and all exposed skin thoroughly after handling.
**P280** Wear protective gloves, clothing, and eye protection.

**Response Statements:**

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|---|---|
| **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 CENTRE or doctor. |
| **P301+P330+P331** | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| **P303+P361+P353** | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. |
| **P363** | Wash contaminated clothing before reuse. |
| **P304+P340** | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| **P321** | Specific treatment (see Section 4 of this SDS). |

**Storage Statements**

**P405** Store locked up.

**Disposal Statements**

**P501** Dispose of contents and container in accordance with local, regional, national and international regulations.

## 3. COMPOSITION INFORMATION

| CHEMICAL ENTITY | CAS No. | PROPORTION |
|---|---|---|
| Lactic Acid | 50-21-5 | > 10% (w/w) |
| Ingredients determined to be non-hazardous at the concentrations used | | Balance |

## 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone New Zealand 0800 764 766).

**Inhalation:** Remove person from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. If symptoms persist, seek immediate medical attention.

**Skin Contact:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance. For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water).

**Eye Contact:** Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical attention. Transport to hospital or medical centre.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious person. If vomiting occurs give further water. Immediately call Poisons Centre or doctor.

**PPE for First Aiders:** Wear rubber boots, overalls, gloves, chemical-resistant apron, safety goggles and face shield. Use with adequate ventilation. If inhalation risk exists, wear air-supplied mask meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Wash contaminated clothing and other protective equipment before storing or re-using.

**Notes to physician:** Treat symptomatically. Can cause skin and corneal burns.

## 5. FIRE FIGHTING MEASURES

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|---|---|
| **Specific Hazard** | Non-combustible material. Corrosive chemical. Wear protective gloves, protective clothing and eye and face protection. |
| **Suitable Extinguishing Media** | Non-combustible, however, if material is involved in a fire use: water spray, normal foam or dry agent (carbon dioxide, dry chemical powder). |
| **Fire Fighting further Advice** | Non-combustible, however following evaporation of aqueous component residual material can decompose if involved in a fire, emitting toxic fumes. Contact with metals may liberate hydrogen gas which is extremely flammable. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition. |
| **HAZCHEM** | 2X |

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILLS**

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours, mist or spray. Wipe up with non-combustible absorbent. Collect and seal in properly labelled containers or drums for disposal.

**LARGE SPILLS**

Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Use a spark-free shovel. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services. Caution - heat may be evolved on contact with water.

**Dangerous Goods - Initial Emergency Response Guide No:** 37

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid eye contact and skin contact. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Wash thoroughly after handling. Use personal protection equipment. Keep out of reach of children.

**Conditions for Safe Storage:** Store in a cool, dry, well-ventilated place. Store away from incompatible materials described in Section 10. Store away from foodstuffs. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Class 8 Dangerous Goods as per the criteria of the "New Zealand NZS5433: Transport of Dangerous Goods on Land" and must be stored in accordance with the relevant regulations.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

No information available for the product or its constituent components.

**Biological Limit Values:** As per the WorkSafe New Zealand the ingredients in this material do not have a Biological Limit Allocated.

**Engineering Measure:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well-ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator. Vapour heavier than air - prevent concentration in hollows or sumps. Do NOT enter confined spaces where vapour may have collected.

**Personal Protective Equipment:** OVERALLS, GLOVES, APRON, SAFETY GOGGLES AND FACE SHIELD

Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.

Wear overalls, gloves, apron, safety goggles and face shield. Use with adequate ventilation. If inhalation risk exists, wear air-supplied mask meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from butyl rubber, chloroprene rubber, polyvinylchloride (PVC) or nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

| | |
|---|---|
| **Hygiene measures:** | Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or spray. Ensure that eyewash stations and safety showers are close to the workstation location. |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Form:** | Liquid |
| **Odour:** | Odourless |
| **pH:** | < 2 (25°C) |
| **Freezing Point:** | Unknown |
| **Boiling Point:** | 216.6°C |
| **Flash Point (°C):** | Does not flash |
| **Flammability:** | Not Available |
| **Explosive Limits:** | Not Available |
| **Vapour Pressure:** | Unknown |
| **Vapour Density:** | Unknown |
| **Specific Gravity:** | 1.04 - 1.25 |
| **Solubility:** | Water Soluble |
| **Partition Coefficient:** | Not Available |
| **Auto-Ignition Temperature:** | > 400 °C |
| **Decomposition Temperature:** | > 200 °C |
| **Kinematic Viscosity:** | Unknown |
| **SADT:** | Unknown |

## 10. STABILITY AND REACTIVITY

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|---|---|
| **Chemical Stability:** | Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. |
| **Conditions to Avoid:** | Elevated temperatures. |
| **Incompatible Materials:** | Strong oxidising agents. |
| **Hazardous Decomposition Products:** | None known. |
| **Hazardous reactions** | None known. |

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and over exposure occurs are:

**ACUTE EFFECTS**

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|---|---|
| **Ingestion** | Harmful if swallowed. Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract. |
| **Inhalation** | Material may be an irritant to mucous membranes and respiratory tract. |
| **Skin Contact** | Corrosive to skin. Contact with skin will result in severe skin burns. |
| **Eye Contact** | Corrosive to eyes: contact can cause corneal burns. Contamination of eyes can result in serious eye damage. |

**ACUTE TOXICITY**

| | |
|---|---|
| **Inhalation** | This material has not been classified as having Acute Inhalation Toxicity. |
| **Skin Contact** | This material has not been classified as having Acute Dermal Toxicity. |
| **Ingestion** | This material has not been classified as having Acute Oral Toxicity. |
| **Corrosion / Irritancy** | Eye: this material has been classified as Serious Eye Damage - Category 1 Skin: this material has been classified as Skin Corrosion - Category 1C. |
| **Sensitisation** | Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser. |
| **Aspiration Hazard** | This material has been classified as non-hazardous. |
| **Specific Target Organ Toxicity (Single Exposure)** | This material has been classified as non-hazardous. |
| **Specific Target Organ Toxicity (Repeat Exposure)** | This material has been classified as non-hazardous. |

**CHRONIC TOXICITY**

| | |
|---|---|
| **Mutagenicity** | This material has been classified as non-hazardous. |
| **Carcinogenicity** | This material has been classified as non-hazardous. |
| **Reproductive Toxicity (including via** | This material has been classified as non-hazardous. |

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

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|---|---|
| **Acute aquatic hazard** | Expected to be harmful to aquatic species due to low pH. |
| **Long-Term Aquatic Hazard** | This material has been classified as non-hazardous. |
| **Ecotoxicity in the Soil Environment** | This material has been classified as non-hazardous. |
| **Ecotoxicity to terrestrial vertebrates** | This material has been classified as non-hazardous. |
| **Ecotoxicity to terrestrial invertebrates** | This material has been classified as non-hazardous. |
| **Ecotoxicity** | No information available. |
| **Persistence and Degradability** | The product is readily biodegradable. |
| **Bioaccumulative Potential** | Not Bioaccumulable |
| **Mobility** | Small Absorption |

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible, material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the
"New Zealand NZS5433: Transport of Dangerous Goods on Land"




| | |
|---|---|
| **UN Number:** | 3265 |
| **Proper Shipping Name:** | CORROSIVE LIQUID, ACIDIC, ORGANIC N.O.S. (CONTAINS LACTIC ACID) |
| **Emergency Response Guide No.:** | 37 |
| **Class:** | 8 |
| **Packing Group:** | III |
| **HAZCHEM** | 2X |

**Segregation Dangerous Goods**: Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following: Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, Class 7; and are incompatible with food and food packaging in any quantity. Not to be loaded on the same vehicle with strong alkalis.

### MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.




| | |
|---|---|
| **UN Number:** | 3265 |
| **Proper Shipping Name:** | CORROSIVE LIQUID, ACIDIC, ORGANIC N.O.S. (CONTAINS LACTIC ACID) |
| **Class:** | 8 |
| **Packing Group:** | III |

### AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.




| | |
|---|---|
| **UN Number:** | 3265 |
| **Proper Shipping Name:** | CORROSIVE LIQUID, ACIDIC, ORGANIC N.O.S. (CONTAINS LACTIC ACID) |
| **Class:** | 8 |
| **Packing Group:** | III |

## 15. REGULATORY INFORMATION

| | |
|---|---|
| **EPA Group Standard:** | Additives, Process Chemicals and Raw Materials (Corrosive) Group Standard 2020 (HSR002491) |

All components of this product are listed on or exempt from the New Zealand Inventory of Chemical (NZIoC).

## 16. OTHER INFORMATION

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|---|---|
| **Date Issued:** | December 22, 2023 |
| **Version:** | 1.0 |
| **Replaces:** | First Issue |
| **Date of Next Review:** | December 22, 2028 |

Safety Data Sheets are updated frequently. Please ensure that you have a current copy. This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate.
However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

**End of Safety Data Sheet**