

# SAFETY DATA SHEET



F69775 Lactic acid Ph-Q ,250LFL

**00000020730**

Version 1.0

Revision Date 10/07/2016

Print Date 05/22/2019

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Lactic acid

Number : 00000020730

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell International Inc.  
1953 South Harvey Street  
Muskegon, MI 49442

For more information call : 1-800-368-0050  
+1-231-726-3171  
(Monday-Friday, 9:00am-5:00pm)

**In case of emergency call : Medical: 1-800-498-5701 or +1-303-389-1414**  
**: Transportation (CHEMTREC): 1-800-424-9300 or**  
**+1-703-527-3887**  
:  
: (24 hours/day, 7 days/week)

## SECTION 2. HAZARDS IDENTIFICATION

### Emergency Overview

Form : liquid

Color : colourless

Odor : odourless

### Classification of the substance or mixture

Classification of the substance or mixture : Skin irritation, Category 2  
Serious eye damage, Category 1

### GHS Label elements, including precautionary statements

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Symbol(s)

:



Signal word

: Danger

Hazard statements

: Causes skin irritation.  
Causes serious eye damage.

Precautionary statements

: **Prevention:**  
Wash skin thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.**Response:**

IF ON SKIN: Wash with plenty of soap and water.  
 IF IN EYES: Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do. Continue rinsing.  
 Immediately call a POISON CENTER/doctor.  
 If skin irritation occurs: Get medical advice/ attention.  
 Take off contaminated clothing and wash before reuse.

**Carcinogenicity**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula

: C<sub>3</sub>H<sub>6</sub>O<sub>3</sub>

Chemical nature

: Mixture

Chemical name	CAS-No.	Concentration
Lactic Acid	50-21-5	>=80.00 - <=100.00 %
Water	7732-18-5	>=10.00 - <20.00 %

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**SECTION 4. FIRST AID MEASURES**

- General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.
- Inhalation : In case of accident by inhalation: remove casualty to fresh air and keep at rest. If symptoms persist, call a physician.
- Skin contact : After contact with skin, wash immediately with plenty of soap and water. Consult a physician.
- Eye contact : Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. Remove contact lenses. Call a physician immediately.
- Ingestion : When swallowed, allow water to be drunk. Do NOT induce vomiting. Call a physician immediately.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.
- Specific hazards during firefighting : Fire may cause evolution of:  
Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide
- Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions : Evacuate personnel to safe areas.

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- Wear personal protective equipment. Unprotected persons must be kept away.  
Ensure adequate ventilation.  
Avoid breathing vapours, mist or gas.  
Do not get in eyes, on skin, or on clothing.
- Environmental precautions : Should not be released into the environment.  
Prevent further leakage or spillage if safe to do so.
- Methods for cleaning up : Soak up with inert absorbent material.  
Sweep up and shovel into suitable containers for disposal.  
Dispose of in accordance with local regulations.

**SECTION 7. HANDLING AND STORAGE****Handling**

- Handling : Wear personal protective equipment.  
Use only in well-ventilated areas.  
Avoid breathing vapours, mist or gas.  
Do not get in eyes, on skin, or on clothing.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.

**Storage**

- Requirements for storage areas and containers : Store in original container.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.  
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.  
Avoid breathing vapours, mist or gas.  
Do not get in eyes, on skin, or on clothing.
- Engineering measures : Use with local exhaust ventilation.
- Eye protection : Safety goggles
- Hand protection : Impervious butyl rubber gloves  
Gloves must be inspected prior to use.

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Replace when worn.

Skin and body protection : Protective suit

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

**Exposure Guidelines**

Contains no substances with occupational exposure limit values.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : liquid

Color : colourless

Odor : odourless

pH : ca. 2.8 at 10.00 g/l, 20 °C

Boiling point/boiling range : 122 °C at 20 hPa

Flash point : 235 °F (113 °C)  
Method: closed cupDensity : 1.209 g/cm<sup>3</sup>Partition coefficient:  
n-octanol/water : Note: no data available

Decomposition temperature : Note: No decomposition if used as directed.

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Molecular weight : 90.08 g/mol

**SECTION 10. STABILITY AND REACTIVITY**

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : None known.

Conditions to avoid : Keep away from heat.

Incompatible materials to avoid : Formation of explosive gas/air mixtures.  
Acids

Hazardous decomposition products : Carbon oxides

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity : LD50: 3,543 - 4,936 mg/kg  
Species: Rat

Acute inhalation toxicity : LC50: > 7.94 mg/l , dust/mist  
Exposure time: 4 h  
Species: Rat  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50: > 2,000 mg/kg  
Species: Rabbit  
Note: No deaths

Skin irritation : Note: Conclusive and supporting classification (Ref: REACH Dossier - ECHA disseminated data)

Eye irritation : Note: Conclusive and supporting classification (Ref: REACH Dossier - ECHA disseminated data)

Sensitisation : Buehler Test  
Species: Guinea pig

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Genotoxicity in vitro	: Result: non-sensitizing Method: in vivo assay
	: Test Method: Ames test Metabolic activation: with and without metabolic activation Result: negative
Carcinogenicity	: Species: Rat Application Route: Oral Exposure time: two-year Note: Did not show carcinogenic effects in animal experiments.
Teratogenicity	: Species: Mouse Application Route: Oral NOAEL, Teratog: 570 mg/kg NOAEL, Maternal: 570 mg/kg Note: Did not show teratogenic effects in animal experiments.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity effects**

Toxicity to fish	: static test LC50: 130 mg/l Exposure time: 96 h Species: Salmo gairdneri
Toxicity to daphnia and other aquatic invertebrates	: static test EC50: 130 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202
Toxicity to algae	: static test > 2,800 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Method: OECD Test Guideline 201

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Toxicity to bacteria : static test  
EC50: > 100 mg/l  
Exposure time: 3 h  
Species: activated sludge  
Method: OECD Test Guideline 209

### Further information on ecology

## SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

## SECTION 14. TRANSPORT INFORMATION

**DOT** Not dangerous goods

**TDG** Not dangerous goods

**IATA** Not dangerous goods

**IMDG** Not dangerous goods

## SECTION 15. REGULATORY INFORMATION

### Inventories

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Toxic Chemical Control Law (TCCL) List : On the inventory, or in compliance with the inventory



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Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

## National regulatory information

**SARA 302 Components** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards** : Acute Health Hazard

**California Prop. 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 3	3
Flammability	: 1	1
Physical Hazard	: 0	
Instability	:	0

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Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

## **Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group