

**Lactic Acid**Revision Date **09.12.2010**Ref. **SD2400/2010-02****1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING**

<b>Product name</b>	Lactic Acid VINOFORM
<b>Use of the substance</b>	Food additive, Specialty chemical
<b>Supplier</b>	Brouwland bvba Korspelsesteenweg 86 B-3581 Beverlo – Belgien Tel. +32 (0)11 40 14 08

**2. HAZARDS IDENTIFICATION****Classification of the substance or mixture**

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

**Classification according to Directive 67/548/EEC or 1999/45/EC as amended****Classification**

Xi;R38-41

The full text for all R-phrases is displayed in section 16.

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Skin corrosion/irritation Category 2 Causes skin irritation.

**Health hazards**

Serious eye damage/eye irritation Category 1 Causes serious eye damage.

**Hazard summary****Physical hazards**

Not classified for physical hazards.

**Health hazards**

Irritating to skin. Risk of serious damage to eyes.

**Environmental hazards**

Not classified for hazards to the environment.

**Specific hazards**

Not available.

**Label elements****Label according to Regulation (EC) No. 1272/2008 as amended****Contains:** L-(+)-Lactic acid**Signal word**

Danger

**Hazard statements**

Causes serious eye damage. Causes skin irritation.

**Precautionary statements****Prevention**

Wear protective gloves. Wear eye/face protection. Wash thoroughly after handling.

**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 or doctor/physician. Take off contaminated clothing and wash before reuse.

**Storage**

Not available.

**Disposal**

Not available.

**Supplemental label information**

Not applicable.

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INFORMATION ON  
INGREDIENTS****Mixture  
General information**

<b>Chemical name</b>	<b>%</b>	<b>CAS-No.</b>	<b>EC No.</b>
# L-(+)-Lactic acid	> 50	79-33-4	201-196-2

**Classification****DSD:** Xi;R38-41**CLP:** Skin Irrit. 2;H315, Eye Dam. 1;H318

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

# : This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

**Composition comments**

The full text for all R- and H-phrases is displayed in section 16.

**4. FIRST AID MEASURES****General information**

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

**Description of first aid measures****Inhalation**

Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact**

Remove contaminated clothing. Wash off with soap and plenty of water. If skin irritation occurs: Get medical advice/attention.

**Eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control centre immediately.

**Ingestion**

Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

**Indication of any immediate medical attention and special treatment needed**

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**5. FIRE-FIGHTING  
MEASURES****General fire hazards**

Not available.

**Extinguishing media****Suitable extinguishing media**

Water spray, foam, dry powder or carbon dioxide.

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Do not use water jet as an extinguisher, as this will spread the fire.

**Special hazards arising from the substance or mixture**

Not available.

**Advice for firefighters****Special protective equipment for firefighters**

Not available.

**Special firefighting procedures**

Not available.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Keep unnecessary personnel away. Do not touch or walk through spilled material.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so.

**Methods and material for containment and cleaning up**

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13.

**7. HANDLING AND STORAGE****Precautions for safe handling**

Do not get this material in contact with eyes. Avoid contact with skin. Wash hands thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**

Keep container tightly closed. Keep out of the reach of children. Avoid temperatures above 392°F (200°C).

**8. EXPOSURE CONTROLS/ PERSONAL PROTECTION****Control parameters****Occupational exposure limits**

No exposure limits noted for the ingredient(s).

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures**

Not available.

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Not available.

**PNEC**

Not available.

**Exposure controls****Appropriate engineering controls**

Not available.

**Individual protection measures, such as personal protective equipment****General information**

Eye wash fountain is recommended.

**Eye/face protection**

Wear eye/face protection.

**Skin protection****Hand protection**

Wear protective gloves.

**Other**

Wear suitable protective clothing.

**Respiratory protection**

Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

**Hygiene measures**

Do not get in eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practices.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties****Appearance**

Clear

**Physical state**

Liquid

**Form**

Aqueous solution

**Colour**

Colourless or yellowish liquid

**Odour**

Characteristic

**Odour threshold**

Not available

**pH**

1.8 @ 25°C

**Melting point/freezing point**

Not available

**Boiling point, initial boiling point, and boiling range**

120 - 130 °C (248 - 266 °F) @

**Flash point**

1013 hPa

**Auto-ignition temperature**

Not applicable

**Flammability (solid, gas)**

Not applicable

**Flammability limit – lower (%)**

Not available

**Flammability limit – upper (%)**

Not available

**Oxidising properties**

Not applicable

**Explosive properties**

Not applicable

**Explosive limit**

Not applicable

**Vapour pressure**

Not applicable

**Vapour density**

Not applicable

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<b>Evaporation rate</b>	Not applicable
<b>Relative density</b>	Not available
<b>Density</b>	1.2 g/cm <sup>3</sup>
<b>Solubility (water)</b>	miscible
<b>Partition coefficient (n-octanol/water)</b>	-0.62
<b>Decomposition temperature</b>	> 200 °C (> 392 °F)
<b>Viscosity</b>	5 - 60 mPa·s @ 25°C
<b>Percent volatile</b>	Not available
<b>Other data</b>	
<b>Surface tension</b>	44 - 50 mN/m @ 50% - 90%
<b>Other information</b>	
No relevant additional information available.	

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**10. STABILITY AND REACTIVITY****Reactivity**

None known.

**Chemical stability**

Material is stable under normal conditions.

**Possibility of hazardous reactions**

Not available.

**Conditions to avoid**

Temperatures above 200 °C.

**Incompatible materials**

Oxidizing agents.

**Hazardous decomposition products**

No dangerous reaction known under conditions of normal use.

**11. TOXICOLOGICAL INFORMATION****General information**

Not available.

**Information on likely routes of exposure****Skin contact**

Causes skin irritation.

**Eye contact**

Causes serious eye damage.

**Information on toxicological effects****Acute toxicity**

Not available.

**Product**

Lactic acid

**Test results**

Acute Dermal LD50 Rabbit: &gt; 2000 mg/kg

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L-(+)-Lactic acid (79-33-4)

**Test results**Acute Inhalation LC50 Rat: 7.94 mg/l 4 Hours  
Acute Oral LD50 Guinea pig: 1810 mg/kg  
Acute Oral LD50 Mouse: 4875 mg/kg  
Acute Oral LD50 Rat: 3730 mg/kg**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Respiratory sensitisation**

Not available.

**Skin sensitisation**

Not available.

**Germ cell mutagenicity**

Not available.

**Carcinogenicity**

Not classified.

**Reproductive toxicity**

Not available.

**12. ECOLOGICAL  
INFORMATION****Toxicity****Product**  
Lactic acid**Test results**EC50 Algae: 3500 mg/l  
EC50 Daphnia: 240 mg/l 48 hours  
LC50 Fish: 320 mg/l 48 hours**Persistence and degradability**

The product is easily biodegradable.

**Bioaccumulative potential**

Not available.

**Mobility**

Not available.

**Environmental fate - Partition coefficient**

Not available.

**Mobility in soil**

Not available.

**Results of PBT and vPvB assessment**

Not available.

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Not available.

**13. DISPOSAL  
CONSIDERATIONS****Waste treatment methods****Residual waste**

Not available.

**Contaminated packaging**

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

**EU waste code**

Not available.

**Disposal methods/information**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**14. TRANSPORT  
INFORMATION****ADR**

Not regulated as dangerous goods.

**RID**

Not regulated as dangerous goods.

**ADN**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No information available.

**15. REGULATORY  
INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture****EU Regulations**Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I  
Not listed.Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II  
Not listed.Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I  
Not listed.Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1  
Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous



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chemicals, Annex I, part 2  
Not listed.  
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3  
Not listed.  
Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V  
Not listed.  
Directive 96/61/EC concerning integrated pollution prevention and control (IPPC):  
Article 15, European Pollution Emission  
Registry (EPER)  
Not listed.  
Regulation (EC) No. 1907/2006, Article 59(1). Candidate List  
Not listed.

**Other regulations**

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

**National regulations**

Not available.

**Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

**16. OTHER INFORMATION****List of abbreviations**

Not available.

**References**

Not available.

**Information on evaluation method leading to the classification of mixture**

Not available.

**Full text of any statements or R-phrases and H-phrases under Sections 2 to 15**

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available.

# indicates updated section.