

LACTIC ACID

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Revision No: 4

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: LACTIC ACID

REACH registered number(s): 01-2119474164-39-XXXX

CAS number: 79-33-4

EINECS number: 201-196-2

Product code: LACA

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Beverage Processing Aids and Other Usages

# 1.3. Details of the supplier of the safety data sheet

Company name:	Murphy and Son Ltd	
	Murphy & Son Ltd	
	Alpine St, Old Basford	
	Nottingham	
	NG6 0HQ	
	United Kingdom	
Tel:	(+44) 115 978 5494	
Email:	technical@murphyandson.co.uk	

#### 1.4. Emergency telephone number

Emergency tel: (+44) 115 978 5494

(office hours only)

#### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification under CLP: Skin Corr. 1C: H314; -: EUH071

Most important adverse effects: Causes severe skin burns and eye damage. Corrosive to the respiratory tract.

2.2. Label elements

Label elements:

Hazard statements: H314: Causes severe skin burns and eye damage.

EUH071: Corrosive to the respiratory tract.

Hazard pictograms: GHS05: Corrosion



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Signal words: Danger Precautionary statements: P260: Do not breathe dust/fumes/gas/mist/vapours/spray. P280: Wear protective gloves/protective clothing/eye protection/face protection. 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 . P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P363: Wash contaminated clothing before reuse. 2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

#### Section 3: Composition/information on ingredients

#### 3.1. Substances

Chemical identity: LACTIC ACID

CAS number: 79-33-4

EINECS number: 201-196-2

REACH registered number(s): 01-2119474164-39-XXXX

#### Section 4: First aid measures

4.1. Description of first aid measures	
Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin.
	Drench the affected skin with running water for 10 minutes or longer if substance is still
	on skin. Transfer to hospital if there are burns or symptoms of poisoning.
Eye contact:	Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist
	examination.
Ingestion:	Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10
	minutes. If unconscious, check for breathing and apply artificial respiration if necessary.
	If unconscious and breathing is OK, place in the recovery position. Transfer to hospital
	as soon as possible.
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. If
	unconscious and breathing is OK, place in the recovery position. If conscious, ensure
	the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and
	provide oxygen if available. Transfer to hospital as soon as possible.
4.2. Most important symptoms and effects, both acute and delayed	
Skin contact:	Blistering may occur. Progressive ulceration will occur if treatment is not immediate.
Eye contact:	Corneal burns may occur. May cause permanent damage.
Ingestion:	Corrosive burns may appear around the lips. Blood may be vomited. There may be
	bleeding from the mouth or nose.

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Inhalation:	There may be shortness of breath with a burning sensation in the throat. Exposure may		
	cause coughing or wheezing.		
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.		
4.3. Indication of any immediat	e medical attention and special treatment needed		
Immediate / special treatment:	Eye bathing equipment should be available on the premises.		
Section 5: Fire-fighting measu	res		
5.1. Extinguishing media			
Extinguishing media:	Suitable extinguishing media for the surrounding fire should be used. Use water spray		
	to cool containers.		
5.2. Special hazards arising fro			
Exposure hazards:	Corrosive. In combustion emits toxic fumes.		
5.3. Advice for fire-fighters			
Advice for fire-fighters:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact		
	with skin and eyes.		
Section 6: Accidental release	neasures		
6.1 Personal processions pro	tective equipment and emergency procedures		
6.1. Personal precautions, pro	lective equipment and emergency procedures		
Personal precautions:	Notify the police and fire brigade immediately. If outside keep bystanders upwind and		
	away from danger point. Mark out the contaminated area with signs and prevent access		
	to unauthorised personnel. Do not attempt to take action without suitable protective		
	clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the		
	escape of liquid.		

#### 6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

#### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

#### 6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

#### Section 7: Handling and storage

#### 7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

Do not handle in a confined space. Avoid the formation or spread of mists in the air.

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#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

### 7.3. Specific end use(s)

Specific end use(s): No data available.

## Section 8: Exposure controls/personal protection

#### 8.1. Control parameters

Workplace exposure limits: No data available.

**DNEL/PNEC** Values

DNEL / PNEC No data available.

8.2. Exposure controls

 Engineering measures:
 Ensure there is sufficient ventilation of the area.

 Respiratory protection:
 Self-contained breathing apparatus must be available in case of emergency.

 Hand protection:
 Impermeable gloves.

 Eye protection:
 Tightly fitting safety goggles. Ensure eye bath is to hand.

 Skin protection:
 Impermeable protective clothing.

## Section 9: Physical and chemical properties

9.1. Information on basic physi	cal and chemical properties		
State:	Liquid		
Colour:	Colourless		
Odour:	Characteristic odour		
Evaporation rate:	No data available.		
Oxidising:	No data available.		
Solubility in water:	Soluble		
Viscosity:	Viscous		
Boiling point/range°C:	No data available.	Melting point/range°C:	110 - 125
Flammability limits %: lower:	Not applicable.	upper:	Not applicable.
Flash point°C:	Not applicable. Part	t.coeff. n-octanol/water:	-0.62
Autoflammability°C:	>400C	Vapour pressure:	No data available.
Relative density:	1.19 - 1.25	pH:	2.0
VOC g/I:	No data available.		
9.2 Other information			

9.2. Other information

Other information: No data available.

#### Section 10: Stability and reactivity

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#### 10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

#### 10.2. Chemical stability

Chemical stability: Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

#### 10.4. Conditions to avoid

#### Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

#### 10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

## Section 11: Toxicological information

#### 11.1. Information on toxicological effects

#### **Relevant hazards for product:**

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

#### Symptoms / routes of exposure

 Skin contact:
 Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

 Eye contact:
 Corneal burns may occur. May cause permanent damage.

 Ingestion:
 Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

 Inhalation:
 There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

 Delayed / immediate effects:
 Immediate effects can be expected after short-term exposure.

#### Section 12: Ecological information

#### 12.1. Toxicity

Ecotoxicity values: No data available.

#### 12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

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#### 12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

#### 12.4. Mobility in soil

Mobility: Readily absorbed into soil.

#### 12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

#### Other adverse effects: Negligible ecotoxicity.

#### Section 13: Disposal considerations

#### 13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal

company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Marine pollutant: No

#### Section 14: Transport information

#### 14.1. UN number

UN number: UN3265

14.2. UN proper shipping name

Shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

#### Packing group: |||

14.5. Environmental hazards

Environmentally hazardous: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

#### Section 15: Regulatory information

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not applicable.

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15.2. Chemical Safety Assessr	nent
Chemical safety assessment:	A chemical safety assessment has not been carried out for the substance or the mixture
	by the supplier.
Section 16: Other information	
Other information	
Other information:	according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation
	(EU) 2015/830
	* indicates text in the SDS which has changed since the last revision.
Phrases used in s.2 and s.3:	EUH071: Corrosive to the respiratory tract.
	H314: Causes severe skin burns and eye damage.
Legend to abbreviations:	PNEC = predicted no effect concentration
Ū	DNEL = derived no effect level
	LD50 = median lethal dose
	LC50 = median lethal concentration
	LDLO = lethal dose low
	EC50 = median effective concentration
	IC50 = median inhibitory concentration
	dw = dry weight
	bw = body weight
	cc = closed cup
	oc = open cup
	MUS = mouse
	GPG = guinea pig
	RBT = rabbit
	HAM = hamster
	HMN = human
	MAM = mammal
	PGN = pigeon
	IVN = intravenous
	IPR = intraperitoneal
	SCU = subcutaneous
	ORL = oral
	SKN = skin
	DRM = dermal
	OCC = ocular/corneal
	OPT = optical
	ING = ingestion

INH = inhalation

PCP = physico-chemical properties

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Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.