



Safety Data Sheet

Infosafe No™ IMILN	Issue Date : December 2018	ISSUED by IMCDAST
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Product Name : **L-lactic acid (Purac range)**

Classified as hazardous

1. Identification

GHS Product Identifier L-lactic acid (Purac range)

Product Code Refer below

Company Name IMCD Australia Pty Ltd (ABN 44 000 005 578)

Address 1st Floor, 372 Wellington Road Mulgrave
VIC AUSTRALIA

Telephone/Fax Number Tel: (03) 8544 3100 (Business hours)
Fax: (03) 8544 3299

Emergency phone number 1800 625 526

Emergency Contact Address NEW ZEALAND
Emergency Response: 0800 500 288
IMCD New Zealand Limited
459 Great South Road
Penrose, Auckland
Ph: (09) 582 0250
Fax (09) 525 0030

E-mail Address reg@imcd.com.au

Recommended use of the chemical and restrictions on use Food additive, specialty chemical.

Other Names

<u>Name</u>	<u>Product Code</u>
Purac FCC 80	4929299
Purac FCC 80	4929300
Purac FCC 80	4929301
Purac FCC 88	4929302
Purac FCC 88	4929303
Purac FCC 88	4929304
Purac Vin	4929305
Purac 88-T	4929323
Purac 88-T	4929324
Purac HS 88	4929325
Purac HS 88	4929326
Purac HS 90	4929327
Purac HS 90	4929328
Purac PF 90	4929329
Purac 88	4929332
Purac FCC 80	5407093
Purac FCC 80	5407094
Purac FCC 88	5407095

Additional Information

Other Information

It is the user's responsibility to determine the suitability of this product for their applications and their methods of use.

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS.

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

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--------------------	----------------------------	-------------------

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2. Hazard Identification

GHS classification of the substance/mixture Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Eye Damage/Irritation: Category 1
 Skin Corrosion/Irritation: Category 2

Signal Word (s) DANGER

Hazard Statement (s) H315 Causes skin irritation.
 H318 Causes serious eye damage.

Pictogram (s) Corrosion



Precautionary statement – Prevention P264 Wash contaminated skin thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response P302+P352 IF ON SKIN: Wash with plenty of soap and 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.
 P310 Immediately call a POISON CENTER or doctor/physician.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P362 Take off contaminated clothing and wash before reuse.

Precautionary statement – Disposal P501 Dispose of contents/container according to local regulations.

Other Information Classified as Hazardous according to the criteria of the New Zealand HSNO Act.
 HSNO Approval Number: HSR002575
 Haz Classes: 6.1D, 8.2C, 8.3A, 9.3C
 Group Standard: Food Additives and Fragrance Materials (Corrosive [8.2C])

3. Composition/information on ingredients

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	L-Lactic acid	79-33-4	>=50 %
Other Information	There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.		

4. First-aid measures

First Aid Measures	You should call a doctor or Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. Have the Safety Data Sheet with you when you call. Keep person warm and at rest. When symptoms persist or in all cases of doubt seek medical advice. Wash contaminated clothing before reuse.
Inhalation	Move to fresh air. Get medical attention immediately if symptoms occur.
Ingestion	Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.
Skin	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Consult a physician.

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Indication of immediate medical attention and special treatment needed if necessary	Treat symptomatically. If breathing is difficult, give oxygen. Keep victim under observation. Symptoms may be delayed.
Most important symptoms/effects, acute and delayed	If in eyes: Burning feeling, Redness, Pain. If on skin: Itching, Redness.

5. Fire-fighting measures

Fire Fighting Measures	Evacuate non-essential personnel. Move containers from fire area if you can do it without risk. Keep containers and surroundings cool with water spray. Prevent fire extinguishing water from contaminating surface water or the ground water system.
Suitable extinguishing media	Water spray, Foam, Dry powder, Carbon dioxide (CO2).
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.
Special Protective Equipment for fire fighters	Wear self-contained breathing apparatus and protective suit.
Specific hazards arising from the chemical	None in particular.
Decomposition Temp.	> 200°C

6. Accidental release measures

Emergency Procedures	Evacuate personnel to safe areas. Do not touch or walk through spilled material. Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Use personal protective equipment. Ensure adequate ventilation.
Methods and materials for containment and cleaning up	Large amounts: Prevent further leakage or spillage if safe to do so. Dike to collect large spills. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Sweep up and shovel into suitable containers for disposal. Following product recovery, flush area with water. Small amounts: Wipe up with absorbent material (e.g. cloth, fleece). After cleaning, flush away traces with water. Never return spills in original containers for re-use.
Environmental Precautions	Should not be released into the environment. Prevent further leakage or spillage if safe to do so.
Other Information	See sections 8 and 13 for further information.

7. Handling and storage

Precautions for Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Ensure adequate ventilation. Wear personal protective equipment. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Keep containers tightly closed in a cool, well-ventilated place. Incompatible with oxidising agents.

8. Exposure controls/personal protection

Exposure Controls, Personal Protection	The following Australian and New Zealand Standards will provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZS 1715, Protective Gloves: AS/NZS 2161, Industrial Clothing: AS 2919, Industrial Eye Protection: AS/NZS 1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS 2210.
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--------------------	----------------------------	-------------------

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Occupational exposure limit values	Contains no substances with occupational exposure limit values.
Biological Limit Values	Not established.
Appropriate engineering controls	Ensure adequate ventilation, especially in confined areas. Keep at temperatures below 200 °C. Ensure that eyewash stations and safety showers are close to the workstation location.
Respiratory Protection	Aerosol or mist formation: In case of insufficient ventilation wear suitable respiratory equipment (APF). Recommended Filter Type: A, Brown.
Eye Protection	Faceshield. Face-shield.
Hand Protection	Protective gloves: Butyl rubber. Glove thickness: 0.5 mm . Break through time: >8 hours.
Body Protection	Unsuitable materials: Natural Rubber, Nitrile rubber, Fluorinated rubber, PVC. Long sleeved clothing. Chemical resistant apron. Boots
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Workers must be trained in the proper use and handling of this product as required under applicable regulations. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before re-use.
Other Information	Environmental Exposure Controls: The product should not be allowed to enter drains, water courses or the soil.

9. Physical and chemical properties

Form	Liquid
Appearance	Clear
Colour	Colourless / Yellowish
Odour	Characteristic
Decomposition Temperature	> 200 °C
Melting/Freezing Point	No data available.
Boiling Point	120-130 °C
Solubility in Water	Miscible
Specific Gravity	No data available.
pH	< 1.2 (@25 °C)
Vapour Pressure	No data available.
Vapour Density (Air=1)	No data available.
Evaporation Rate	No data available.
Odour Threshold	No data available.
Partition Coefficient: n-octanol/water	-0.62
Density	1.2 g/cm ³
Flash Point	Not applicable.
Flammability	No data available.

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Auto-Ignition Temperature	> 400 °C
Flammable Limits - Lower	No data available.
Flammable Limits - Upper	No data available.
Explosion Properties	Not applicable.
Oxidising Properties	Not applicable.
Dynamic Viscosity	5-60 mPa.s (@25°C)

10. Stability and reactivity

Reactivity	None known.
Chemical Stability	Stable under recommended storage conditions.
Conditions to Avoid	Temperatures above 200 °C
Incompatible Materials	Oxidizing agents.
Hazardous Decomposition Products	None under normal use.
Possibility of hazardous reactions	No information available.

11. Toxicological Information

Acute Toxicity - Oral	Lactic acid: LD50, rat: 3543 mg/kg (female) / 4936 mg/kg (male)
Acute Toxicity - Dermal	Lactic acid: LD50, rabbit: >2000 mg/kg
Acute Toxicity - Inhalation	Lactic acid: LC50, rat, 4h: >7.94 mg/l
Respiratory sensitisation	No known effect.
Skin Sensitisation	No known effect.
Germ cell mutagenicity	Not known to cause heritable genetic damage.
Carcinogenicity	Contains no ingredient listed as a carcinogen.
Reproductive Toxicity	Not known to cause birth defects or have a deleterious effect on a developing fetus. Not known to adversely affect reproductive functions and organs.
STOT-single exposure	No known effect.
STOT-repeated exposure	No known effect.
Aspiration Hazard	No known effect.
Serious eye damage/irritation	Causes serious eye damage. Lactic acid: CEET, Ex vivo, solution (88 %) Result: Severe eye irritation
Skin corrosion/irritation	Causes skin irritation. Lactic acid: OECD 404, In vivo, Rabbit, solution (88 %) Result: Irritating

12. Ecological information

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Persistence and degradability	Readily biodegradable.
Mobility	No information available.
Bioaccumulative Potential	Does not bioaccumulate. S-lactic acid: Log Pow: -0.62
Other Adverse Effects	No information available.
Acute Toxicity - Fish	Lactic acid: LC50: 130 mg/L 96h Oncorhynchus mykiss LC50: 320 mg/L 96h Danio rerio
Acute Toxicity - Daphnia	Lactic acid: EC50: 130 mg/L 48h Daphnia magna EC50: 250 mg/L 48h Daphnia magna
Acute Toxicity - Algae	Lactic acid: EC50: >2.8 g/L 72h Pseudokirchnerella subcapitata EC50: 3.5 g/L 72h Pseudokirchnerella subcapitata
Acute Toxicity - Bacteria	Lactic acid: LC50: >88.2 mg/L 3h
Other Information	This product is not considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

13. Disposal considerations

Disposal Considerations	Dispose of waste according to applicable local, state and federal regulations.
Container Disposal	Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Not regulated for transport of Dangerous Goods: ADG7, UN, IATA, IMDG. Not a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land & Dangerous Goods Rule 2005.
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15. Regulatory information

Regulatory Information	All components of this material are listed on or exempt from the New Zealand Inventory of Chemicals (NZIoC).
Poisons Schedule	Not Scheduled
HSNO Approval Number	HSR002575
AICS (Australia)	All components of this material are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

16. Other Information

Contact Person/Point	An electronic version of this SDS is available at www.imcdgroup.com
Other Information	ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th Edition AICS: Australian Inventory of Chemical Substances ASCC: Office of the Australian Safety and Compensation Council BCF: Bioconcentration Factor CAS number: Chemical Abstracts Service Registry Number CMR: Carcinogenic, Mutagenic or toxic to Reproduction



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DMEL: Derived Minimum Effect Level
 DNEL: Desired NO Effect Level
 EPA: Environmental Protection Agency
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 Hazchem Code: Emergency action code of numbers and letters that provide information to emergency services especially fire fighters
 IARC: International Agency for Research on Cancer
 IOELV: Indicative Occupational Exposure Limit Value
 LC50: Lethal Concentration, 50 percent
 LD50: Lethal Dose, 50 percent
 NICNAS: National Industrial Notification & Assessment Scheme
 NIOSH: National Institute for Occupational Safety & Health
 NOAEL: No Observed Adverse Effect Level
 NOEC: No Observed Effect Concentration
 NOS: Not otherwise specified
 NTP: National Toxicology Program (USA)
 OEL: Occupational Exposure Limit
 OSHA: Occupational Safety & Health Administration
 PBT: Persistent Bioaccumulative Toxic chemical
 PMCC: Pensky Martens Closed Cup
 PNEC: Predicted No Effect Concentration
 R-Phrase: Risk Phrase
 STEL: Short Term Exposure Limit
 STOT-SE: Specific Target Organ Toxicity (Single Exposure)
 STOT-RE: Specific Target Organ Toxicity (Repeated Exposure)
 SUSMP: Standard for the Uniform Scheduling of Medicines & Poisons
 TWA: Time Weighted Average
 UN Number: United Nations Number
 vPvB: Very Persistent and Very Bioaccumulative
 WEEL: Workplace Environmental Exposure Level
 WEL-TWA: Workplace Exposure Limit, Time Weighted Average
 ...End Of MSDS...

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