



# Safety Data Sheet

According to Model Code of Practice

Revision n. 04  
Dated 01/03/2022  
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## ECODECALK Descaler for coffee machines

### SECTION 1 – IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

#### Product identifier

Code: ---  
Product name: **ECODECALK – ECODECALK Mini**

#### Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Descaler for coffee machine, domestic use

#### Details of manufacturer or importer

Name: Delonghi Australia Pty Ltd  
Address: Unit 3a Nexus Park 43 Lyn Parade  
City and Country: Prestons NSW 2170  
Ph:1800 126 659 - Fax:1800 007 289  
[msds.helpdesk.delonghi@delonghigroup.com](mailto:msds.helpdesk.delonghi@delonghigroup.com)  
[www.delonghigroup.com](http://www.delonghigroup.com) (Mo-Fri 08:00/12:00 - 13:00/17:00)

e-mail address of the competent person  
responsible for the Safety Data Sheet:  
Supplier

#### Emergency phone number

For urgent inquiries refer to:

**Australia**  
[131 126](tel:131126)  
+61 7 363 68 148 (Brisbane) [poisons\\_info@health.qld.gov.au](mailto:poisons_info@health.qld.gov.au)  
+61 394 96 4509 (Heidelberg)  
+61 893 46 1943 (Nedlands)  
+61 13 11 26 / +61 1300 383 156 (Westmead) [nswpoisons@chw.edu.au](mailto:nswpoisons@chw.edu.au)  
+61 2 9845 3969 (Sydney)

**New Zealand**  
0800 764 766  
+64 3 479 7227 (Dunedin) [poisons@otago.ac.nz](mailto:poisons@otago.ac.nz)

### SECTION 2 - HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

This product is classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2019.

The product is classified as hazardous; the product thus requires a safety datasheet.

The hazards described in this Globally Harmonized System Safety Data Sheet (SDS) are not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

#### Classification of the substance or mixture

HAZARD CLASS	HAZARD CATEGORY
Skin corrosion	1C
Serious eye damage	1

**Label elements** (in accordance with the Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals)

Signal words: Danger



#### Symbol:

#### Hazard statements:

H314 Causes severe skin burns and eye damage.

AUH071 Corrosive to the respiratory tract

#### Precautionary statements:

##### *General precautionary statements*

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

##### *Prevention*

Wash hands thoroughly after handling.

Do not breathe vapours.


##### *Response*

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

##### *Disposal*

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Dispose of contents/container in accordance with local Regulation

**Other hazards**

None known

See Section 11 for additional toxicological information.

**SECTION 3 - COMPOSITION AND INFORMATION ON INGREDIENTS**

The following chemicals are classified as health hazards in accordance with paragraph (d) of § 1910.1200

Chemical Name *	CAS Number (Unique Identifier)	Concentration
L-(+)-lactic acid	79-33-4	30 – 50 %

\* Exact percentages may vary or are a trade secret. Concentration range is provided to help users ensure appropriate protections.

**SECTION 4 - FIRST AID MEASURES**

**Description of necessary measures**

**EYES:** Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Seek medical advice.  
**SKIN:** Remove contaminated clothing. Wash immediately with plenty of water. Get medical advice/attention. Wash contaminated clothing before using it again.  
**INHALATION:** Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.  
**INGESTION:** Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorized by a doctor

**Most important symptoms and effects, both acute and delayed**

After eye contact: Causes serious eye damage. After skin contact: Causes severe skin burns (redness, swelling, burning).  
 After inhalation: Breathing high vapor concentrations may produce anesthetic effects, nausea, dizziness, headache. After ingestion: Ingestion may cause irritation of mouth, throat, digestive tract, diarrhea and vomiting

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

After eye contact: Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. After skin contact: Rinse affected area with large amounts of water until no evidence of product remains. After inhalation: Remove from exposure area to fresh air. After ingestion: Rinse mouth.

**SECTION 5 - FIREFIGHTING MEASURES**

**Suitable (and unsuitable) extinguishing media**

*Suitable extinguishing equipment*

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

*Unsuitable extinguishing media*

None in particular

**Specific hazards arising from the chemical**

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

**Special protective equipment and precautions for firefighters**

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal firefighting clothing i.e., fire kit, gloves and boots in combination with self-contained open circuit positive pressure compressed air breathing apparatus.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

**Environmental precautions**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

**Methods and materials for containment and cleaning up**

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.


Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**SECTION 7 - HANDLING AND STORAGE**

**Precautions for safe handling**

Before handling the product, consult all the other sections of this material safety data sheet. Avoid contact with eyes and skin. Do not inhale the vapors. Avoid leakage of the product into the environment. Do not eat, drink, or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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

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Store only in the original container. Store the containers sealed, in a well-ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must comply with current regulations.

#### HAND PROTECTION

Wear protective gloves such as: Nitrile. Polyvinyl alcohol (PVA), comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear comply with AS 3765 Clothing for Protection Against Hazardous Chemicals. Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear airtight protective goggles comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Provide an eye wash system and emergency shower.

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask selected and used in accordance with AS/NZS 1715 and AS/NZS 1716. In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- Physical state	liquid
- Colour	colourless
- Odour	characteristic
- Melting point/freezing point:	18 °C
- Initial boiling point:	122 °C @ 15 mm Hg
- Flammability (solid, gas):	n.a.
- Upper/lower flammability or explosive limits:	n.d.
- Flash point:	> 200 °C
- Auto-ignition temperature:	> 400 °C
- Decomposition temperature:	n.d.
- pH:	2.5 ca.
- Kinematic viscosity:	20-40 mPa*s @ 20°C
- Solubility:	soluble
- Partition coefficient: n-octanol/water:	log Pow: -0.62
- Vapour pressure:	0.1 mmHg (25 °C)
- Relative density:	1.21 kg/l
- Vapour density:	n.d.
- particle characteristics	n.a.

## SECTION 10 - STABILITY AND REACTIVITY

### Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

### Chemical stability

The product is stable in normal conditions of use and storage.

### Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

### Conditions to avoid

None in particular. However, the usual precautions used for chemical products should be respected.

### Incompatible materials

Strong oxidant.

### Hazardous decomposition

Does not occur in normal condition products

## SECTION 11 - TOXICOLOGICAL INFORMATION

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains.

- *acute toxicity*: based on calculation and data on raw materials, the mixture does not present this hazard.

ATE (Inhalation) of the mixture: Not classified (no significant component)

ATE (Oral) of the mixture: Not classified (no significant component)



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ATE (Dermal) of the mixture: Not classified (no significant component)

Data referred to hazardous ingredients:

Propanoic acid, 2-hydroxy-, (2S)-

LD50 (Oral): 4936 mg/Kg acute - rat (male), 3543 mg/Kg acute - rat (female).

LD50 (Dermal): > 2000 mg/Kg acute - rabbit.

- *Skin corrosion/irritation*: based on calculation, pH and data on raw materials, the mixture presents this hazard (Skin corrosion)
- *Serious eye damage/irritation*: based on calculation and data on raw materials, the mixture presents this hazard (Eye damage)
- *Respiratory or skin sensitization*: based on calculation and data on raw materials, the mixture does not present this hazard.
- *Germ cell mutagenicity*: based on calculation and data on raw materials, the mixture does not present this hazard.
- *carcinogenicity*: based on calculation and data on raw materials, the mixture does not present this hazard.
- *Reproductive toxicity*: based on calculation and data on raw materials, the mixture does not present this hazard.
- *Specific Target Organ Toxicity (STOT)—single exposure*: based on calculation and data on raw materials, the mixture does not present this hazard.
- *Specific Target Organ Toxicity (STOT)—repeated exposure*: based on calculation and data on raw materials, the mixture does not present this hazard.
- *Aspiration hazard*: Based on calculation and data on raw materials, the mixture presents this hazard (Corrosive to the respiratory tract).

### Information on possible routes of exposure

Ingestion, inhalation, skin and/or eye contact.

### Early onset symptoms related to exposure.

- Inhalation: it could be corrosive to the respiratory tract.
- Ingestion: may cause health disorders, which include abdominal pain with burning, nausea and vomiting.
- Skin contact: redness. Corrosion to skin.
- Eye contact: causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.

### Delayed health effects from exposure.

No data available

### Exposure levels and health effects.

No data available

### Interactive effects.

No data available

## SECTION 12 - ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful effect due to pH shift

### Persistence and degradability

This material is expected to readily biodegrade BOD (5 days): 50%

### Bioaccumulative potential

No bioaccumulation is to be expected (log POW) <1.0).

### Mobility in soil

It will not adsorb to soil.

### Other adverse effects

No data available.

## SECTION 13 - DISPOSAL CONSIDERATIONS

### Disposal methods

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and disposed of according to relevant local, state and federal government regulations

## SECTION 14 - TRANSPORT INFORMATION

Classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail, the International Maritime Dangerous Goods Code (IMDG) and of the International Air Transport Association (IATA) regulations.

### UN number or ID number

3265

### UN proper shipping name

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (LACTIC ACID)

### Transport hazard class(es)

8

### Packing group

III


### Environmental hazards

Not hazardous for the environment.

### Special precautions for user

ADG Code Limited quantity 5L.

IMD Limited quantity 5L.

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IATA Limited quantity 1L.

### SECTION 15 - REGULATORY INFORMATION

SUSDP Poisons Schedule: none allocated.

Prohibition / Licensing Requirements: there are no applicable prohibition or notification / licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.

Industrial Chemicals (Notification and Assessment) Act 1989: all ingredients are listed on or exempt from the Australia Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

### SECTION 16 - ANY OTHER RELEVANT INFORMATION

Standard for the Uniform Scheduling of Medicines and Poisons.', Commonwealth of Australia.

Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2020.

Safe Work Australia, Classifying hazardous chemicals [JULY 2020].

Safe Work Australia, 'Hazardous Chemical Information System, 2018'