



# Safety Data Sheet

According to U.S.A. Federal Hazcom 2012

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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 the supplier of the safety data sheet

Name: De'Longhi America Inc  
Address: 2 Park Way Suite 3A  
City and Country: Upper Saddle River NJ 07458  
U.S.A.  
Ph. +1 201-909-4000  
[compliance.us@delonghigroup.com](mailto:compliance.us@delonghigroup.com)

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

#### Emergency phone number

For urgent inquiries refer to: **USA POISON CONTROL CENTRE - Ph.: +1 800 222 1222**

### SECTION 2 - HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

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 mixture in accordance with paragraph (d) of §1910.1200

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

#### Label elements (in accordance with paragraph (f) of §1910.1200)

Signal words: **Danger**



#### Symbol:

#### Hazard statements:

Causes severe skin burns and eye damage.

#### 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

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
Propanoic acid, 2-hydroxy-, (2S)-	79-33-4	30 – 50 %



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\*The specific chemical identity and/or exact percentage (concentration) of composition has been withheld because a trade secret is claimed in accordance with paragraph (i) of §1910.1200

### 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 the 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

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



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Protect hands with category III work gloves (OSHA 29 CFR 1910.138).

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. Wash body with soap and water after removing protective clothing.

### EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

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 with a NIOSH certified filter, whose class must be chosen according to the limit of use concentration (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134). 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.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus or external air-intake breathing apparatus. For a correct choice of respiratory protection device, see standard NIOSH 42 CFR 84, OSHA 29 CFR 1910.134.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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

## 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)

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)



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- *Serious eye damage/irritation*: based on calculation and data on raw materials, the mixture presents this hazard (Eye damage)
- *Respiratory or skin sensitisation*: 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 does not present this hazard.

#### 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 ( $\log P(o/w) < 1.0$ ).

#### 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 U.S. Department of Transportation Ground (49 CFR), 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

CFR 49 Limited quantity 5L.

IMDG Limited quantity 5L.

IATA Limited quantity 1L.

## SECTION 15 - REGULATORY INFORMATION

#### U.S. Federal Regulations.

TSCA: all components of this product are listed on US Toxic Substances Control Act (TSCA) Inventory or are exempt from the listing / notification requirements.



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Clean Air Act Section 112(b): no component(s) listed.  
Clean Air Act Section 602 Class I Substances: no component(s) listed.  
Clean Air Act Section 602 Class II Substances: no component(s) listed.  
Clean Water Act – Priority Pollutants: no component(s) listed.  
Clean Water Act – Toxic Pollutants: no component(s) listed.  
DEA List I Chemicals (Precursor Chemicals): no component(s) listed.  
DEA List II Chemicals (Precursor Chemicals): no component(s) listed.  
EPA List of Lists: 313 Category Code: no component(s) listed.  
EPCRA 302 EHS TPQ: no component(s) listed-  
EPCRA 304 EHS RQ: no component(s) listed.  
CERCLA RQ: no component(s) listed.  
EPCRA 313 TRI: no component(s) listed.  
RCRA Code: no component(s) listed.  
CAA 112 (r) RMP TQ: no component(s) listed.

#### State Regulations

Massachusetts: no component(s) listed.  
Minnesota: no component(s) listed.  
New Jersey: no component(s) listed.  
New York: no component(s) listed.  
Pennsylvania: no component(s) listed.  
California: no component(s) listed.  
Proposition 65: this product does not contain any substances known to the State of California to cause cancer, reproductive harm or birth defects.

## SECTION 16 - ANY OTHER RELEVANT INFORMATION

#### GENERAL BIBLIOGRAPHY:

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh - Registry of Toxic Effects of Chemical Substances
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Communication Standard (HCS 2012)
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act
- Massachusetts 105 CMR Department of public health 670.000: "Right to Know"
- Minnesota Chapter 5206 Department Of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323

#### CALCULATION METHODS FOR CLASSIFICATION

Product classification derives from criteria established by the OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200), unless determined otherwise in Section 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.