

**KENWOOD****BRAUN****Ariete****DE' LONGHI APPLIANCES Srl****LIMESCALE REMOVER Ecodecalk Mini 2x100 ml - INT
code 5513292821****Rev. 0
Date: 17-05-2013**

Safety Data Sheet

1. Identification of the substance or mixture, and of the company/business

1.1. Product identifier

Code: 5513292821 (manufacturer's code: 240)

Name: LIMESCALE REMOVER ECODECALK

1.2. Relevant identified uses of the substance or mixture, and non-recommended uses

Description/Use: LIMESCALE REMOVER FOR HOUSEHOLD COFFEE MACHINES

1.3. Information on the supplier of the Safety Data Sheet

Company name DE' LONGHI APPLIANCES SRL.

Address Via L. Seitz, 47 - 31100 TREVISO - ITALY

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For Switzerland, imported by / Pour la Suisse importé par / Für die Schweiz importien von:

Kenwood Swiss AG Lättichstrasse 6 -6340 Baar /+41 (0) 41766 87 87 www.kenwood.ch / www.delonghi.che-mail address of the person responsible
for the Safety Data Sheet info@italchimes.it (Italchimes: tel. 041/932853 - fax 041/929929)

1.4. Emergency telephone number

National Poison Control Centre:

In Switzerland (CH): Poison Control Centre (STIZ) 8032 Zurich, tel. 145/ international calls +41 44 251 51 51

For urgent inquiries contact the DE'LONGHI APPLIANCES SRL SWITCHBOARD +39 (0)422 4131
Paolo Evangelisti cell. +39 335 1813571 e-mail: paolo.evangelisti@delonghi.it

2. Hazards Identification.

2.1. Classification of the substance or mixture.

The product is classified as hazardous according to the provisions set forth in Directives 67/548/EEC and 1999/45/EC and/or Regulation (EC) 1272/2008 (CLP) (and subsequent amendments). The product thus requires a safety data sheet complying with the provisions of Regulation (EC) 1907/2006 and subsequent amendments.

Any additional information concerning health and/or environmental risks are given in sections. 11 and 12 of this sheet.

2.1.1. Regulation 1272/2008 (CLP) and subsequent amendments.

Classification and hazard statements:

Eye Dam. 1 H318

Skin Irrit. 2 H315

2.1.2. Directive 67/548/EEC and subsequent amendments.

Hazard symbols: Xi

Risk Phrases: 38-41

The classification of the compound, characterized by an extreme pH value, is based on the results of an appropriate in vitro test validated as provided in par. 3.2.5 of Annex VI of Directive 67/548/EEC and subsequent amendments.

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The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

2.2. Label elements.

Hazard labelling pursuant to Regulation (EC) 1272/2008 (CLP) and subsequent amendments.

Symbols:



Caution: Hazard

Hazard statements:

H318 Causes serious eye damage.
H315 Causes skin irritation.

Safety recommendations:

P101 If medical advice is needed, have the product container or label at hand
P102 Keep out of the reach of children.
P264 Wash hands thoroughly after use.
P280 Wear protective gloves / clothing / Protect the eye / face.
P309 In the event of exposure or illness:
P310 Immediately call the number indicated above or a doctor.

2.3. Other hazards.

Information not available.

3. Composition / information on the ingredients.

3.1. Substances.

Irrelevant information.

3.2. Mixtures.

Contains:

Identification.	Conc. %.	Classification 67/548/EEC.	Classification 1272/2008 (CLP).
LACTIC ACID CAS. 79-33-4 CE. 201-196-2 INDEX. –	30 - 50	Xi R38, Xi R41	Eye Dam. 1 H318, Skin Irrit. 2 H315

T+ = Highly toxic (T+), T = Toxic (T), Xn = Harmful (Xn), C = Corrosive (C), Xi = Irritant (Xi), O = Combustive (O), E = Explosive (E), F+ = Highly flammable (F+), F = Easily flammable (F), N = Dangerous for the environment (N)

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

4. First aid measures.

General information: consult a doctor. Show this safety data sheet to the doctor.

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4.1. Description of the first aid measures.

Not specifically required. The rules of good industrial hygiene should in any case be respected.

EYES: rinse immediately with plenty of water for at least 15 min. Immediately consult a doctor.

SKIN: rinse immediately with plenty of water. Remove contaminated clothing. If irritation persists, consult a doctor. Wash the contaminated clothing before reuse.

INHALATION: move the person into the fresh air. If breathing is irregular, seek medical advice immediately.

INGESTION: immediately consult a doctor. Induce vomiting only if indicated by the doctor. Do not administer anything orally to an unconscious person unless authorized by the doctor.

4.2. Main symptoms and effects, both acute and delayed.

No episodes of damage to health are ascribable to the product.

For symptoms and effects caused by the contained substances, see chap. 11.

4.3. Indication of any immediate medical attention and special treatment.

Follow the doctor's instructions.

5. Fire-fighting measures.

Nothing significant to comment on.

5.1. Extinguishing means.

SUITABLE EXTINGUISHING MEANS

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

UNSUITABLE EXTINGUISHING MEANS

None in particular.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Avoid breathing combustion products (carbon oxide, toxic pyrolysis products, etc.).

5.3. Advice for firefighters.

GENERAL INFORMATION

Cool the containers by spraying water to prevent the decomposition of the product and the development of substances potentially hazardous for the health. Always wear the full fire prevention equipment. Collect the extinguishing water that must not be discharged into the drainage system. Dispose of the contaminated water used for extinguishing and the remains of the fire according to regulations in force.

EQUIPMENT

Hard-hat with visor, fireproof clothing (fireproof jacket and trousers with straps around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a positive pressure mask with face-mask covering the entire face of the user or self-contained breathing apparatus in the event of large quantities of smoke.

6. Measures in case of accidental release.

Nothing significant to comment on.

6.1. Personal precautions, protective equipment and procedures in case of emergency.

Use respiratory protection if fumes or powders are released into the air.

6.2. Environmental precautions.

Prevent the product from entering drains, surface water, ground water and neighbouring areas.

6.3. Methods and materials for containment and clean-up.

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Disposal of contaminated material must be made in accordance with the provisions of section 13.

6.4. Reference to other sections.

Information concerning personal protection and disposal is given in sections 8 and 13.

7. Handling and storage.

7.1. Precautions for safe handling.

Avoid contact with the eyes and skin. Do not inhale the vapours.

Store in closed, labelled containers.

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7.2. Conditions for safe storage, including any incompatibilities.
Normal storage conditions without particular incompatibilities.

7.3. Specific end uses.
Information not available.

8. Exposure controls/personal protection.

8.1. Control parameters.
Information not available.

8.2. Exposure controls.

Suitable for the maximum concentration values in the workplace - Swiss MAK (SUVA) and, if necessary, specification of the personal protective equipment.

Since the use of adequate technical measures must always take priority over personal protection equipment, ensure good ventilation at the workplace through effective local extraction or stale air vents. If these operations do not keep the concentration of the product below the exposure limit values in the workplace, wear suitable protection for the respiratory tract. While using the product refer to the warning label for details. When selecting personal protective equipment, if necessary, request advice from your chemicals supplier. The personal protective equipment must comply with the regulations in force indicated below.

PROTECTION OF THE HANDS

Protect your hands with category II work gloves (ref. Directive 89/686/EEC and standard EN 374), made of PVC, neoprene, nitrile, or equivalent. For the final selection of the work glove material, considered the following: deterioration, wear time and permeation.

In the case of preparations, the resistance of protective gloves should be checked before use, as it can be unpredictable. The gloves have a wear time that depends on the duration of exposure.

PROTECTION OF THE EYES

Wear a hooded visor or protective visor together with airtight goggles (ref. standard EN 166).

PROTECTION OF THE SKIN

Wear long-sleeved work cloths and safety footwear for professional use in category II (ref. Directive 89/686/EEC and standard EN 344).

Wash with soap and water after removing the protective clothing.

RESPIRATORY PROTECTION

In the event the threshold value of one or more of the substances present in the preparation is exceeded, related to the daily exposure in the workplace or to a fraction established by the company's prevention and protection service, wear a mask with type B or universal type filter, the class of which (1, 2 or 3) must be chosen according to the concentration limit of use (ref. standard EN 141).

The use of respiratory protective equipment, such as masks with organic vapor and dust/mist cartridges, is necessary in the absence of technical measures limiting the worker's exposure. The protection provided by masks is in any case limited.

In the case in which the substance in question is odorless or its olfactory threshold is higher than the relative exposure limit and in case of emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear a open circuit compressed air breathing apparatus (ref. standard EN 137) or fresh air breathing apparatus for use with a full face mask, half mask or mouthpiece (ref. standard EN 138).

Provide a system with eye wash facilities and emergency shower.

9. Physical and chemical properties.

9.1. Information concerning the basic physical and chemical properties.

Physical State	liquid
Colour	colourless
Odor	characteristic
Odor threshold.	NA (not available).
pH.	<2
Melting or freezing point.	NA (not available).
Boiling point.	NA (not available).
Distillation range.	NA (not available).
Flash point.	> 60 °C.
Evaporation rate	NA (not available).
Flammability of solids and gases	NA (not available).
Lower flammability limit.	NA (not available).
Upper flammability limit.	NA (not available).
Lower explosive limit.	NA (not available).
Upper explosivity limit.	NA (not available).
Vapour pressure.	NA (not available).
Vapour density	NA (not available).
Specific weight.	1.1 Kg/l

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Solubility	soluble in water
Partition coefficient: n-octanol/water:	NA (not available).
Auto-ignition temperature.	NA (not available).
Decomposition temperature.	> 180 ° C
Viscosity	NA (not available).
Oxidizing properties	NA (not available).
9.2. Additional information.	
VOC (Directive 1999/13/EC) :	0
VOC (volatile carbon) :	0

10. Stability and reactivity.

10.1. Reactivity.

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

10.2. Chemical stability.

The product is stable in normal use and storage conditions.

10.3. Possibility of hazardous reactions.

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

10.4. Conditions to avoid.

None in particular. However the usual precautions concerning chemicals should be taken.

10.5. Incompatible materials.

Strong oxidizing agents.

10.6. Hazardous decomposition products.

For thermal decomposition or in the event of fire, potentially dangerous gases and vapours to health may be released.

11. Toxicological information.

Nothing significant to comment on.

11.1. Information on toxicological effects.

Acute effects: contact with the skin may cause irritation with erythema, oedema, dryness and chapped skin. Inhalation of vapours may cause mild irritation of the upper respiratory tract. Ingestion may cause health problems, including stomach pain and burning, nausea and vomiting. This product causes serious damage to eyes and may cause corneal opacity, iris lesions, irreversible eye colouration.

LACTIC ACID

LD50 (Oral): 3730 mg/Kg acute-mouse
LD50 (Dermal): > 2000 mg/Kg acute-rabbit.

12. Ecological information.

Use according to good working practices, avoiding disposal in the environment. Inform the competent authorities should the product reach waterways or sewers or contaminate soil or vegetation.

12.1. Toxicity.

LACTIC ACID

LC50 (96h): 320 mg/l Brachydanio rerio (fish)
LD 50 Daphnia Magna (48h): 240 mg/l.

12.2. Persistence and degradability.

Information not available.

12.3. Bioaccumulation potential.

Information not available.

12.4. Mobility in soil.

Information not available.

12.5. Results of the PBT and vPvB assessment.

Information not available.

12.6. Other adverse effects.

Information not available.

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13. Disposal considerations.

13.1. Waste treatment methods.

Dispose of as an unused product.

For Switzerland: disposal indications in accordance with Swiss law

Reuse if possible. Product residues should be considered as special hazardous waste. The hazard level of waste containing this product should be evaluated according to the legislative provisions in force.

Disposal must be performed through an authorized waste management company, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. Transport information.

The product is not dangerous under current provisions governing the transport of dangerous goods by road (A.D.R.) and by Rail (RID), by sea (IMDG Code) and by air (IATA).

15. Regulatory information.

15.1. Specific health, safety and environmental standards and legislation for the substance or mixture.

Seveso category. None.

Restrictions relating to the product or the contained substances pursuant to Annex XVII Regulation (EC) No. 1907/2006.

Product.

Point. 3

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorization (Annex XIV REACH).

None.

Health controls.

Workers exposed to this chemical agent, hazardous to the health, must undergo health controls carried out in accordance with the provisions of art. 41 of Legislative Decree no. 81 of 9 April 2008 unless the risk to the safety and health of the worker is irrelevant been assessed, in accordance with art. 224 paragraph 2.

Legislative Decree 152/2006 and subsequent amendments.

For Switzerland: indications regarding integration of any relevant Swiss regulations such as an order against atmospheric pollution, etc.

Emissions:

15.2. Chemical safety assessment.

A chemical safety assessment for the mixture and the substances it contains has not been established.

16. Additional information.

Text of the hazard (H) indications mentioned in section 2-3 of the sheet:

Eye Dam. 1 Serious eye damage, category 1

Skin Irrit. 2 Skin irritation, category 2

H318 Causes serious eye damage.

H315 Causes skin irritation.

Text of the Risk (R) indications mentioned in section 2-3 of the sheet:

R38 IRRITATING TO THE SKIN.

R41 RISK OF SERIOUS EYE DAMAGE.

GENERAL BIBLIOGRAPHY:

1. Directive 1999/45/EC and subsequent amendments

2. Directive 67/548/EEC and subsequent amendments

3. Regulation (EC) No. 1907/2006 of the European Parliament (REACH)

4. Regulation (EC) No. 1272/2008 of the European Parliament (CLP)

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5. Regulation (EC) No. 790/2009 of the European Parliament (I Atp. CLP)
6. Regulation (EC) No. 453/2010 of the European Parliament
7. The Merck Index. Ed. 10
8. Handling Chemical Safety
9. Niosh - Registry of Toxic Effects of Chemical Substances
10. INRS - Fiche Toxicologique
11. Patty - Industrial Hygiene and Toxicology
12. N.I. Sax - Dangerous properties of Industrial Materials-7 Ed., 1989

Note for users:

The information contained in this data sheet is based on the knowledge available to us at the date of the last version. Users must verify the suitability and thoroughness of the information according to each specific use of the product.

The said document should not be construed as a guarantee on any specific product property.

the provisions in force concerning hygiene and safety. No responsibility is assumed for improper use.

Amendments in relation to the previous revision.

First edition

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