

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 IDENTIFICATION OF THE PREPARATION: **De'Longhi Entkalker - Descaler.**

1.2 USE OF THE PREPARATION: Descaling agent, in aqueous solution, for steam coffee machines.

1.3 DISTRIBUTING COMPANY: DE'LONGHI APPLIANCES Srl - Via L. Seitz, 47 - 31100 Treviso – ITALY. Tel. +39 (0)422 413513 Fax. +39 (0)422 413736.

1.4 PACKAGING COMPANY: VALMATIC Srl – 41030 San Prospero (MO) – Via Turati 5- Italy – Tel. 059 906550 email: [valmatic@valmaticsrl.com](mailto:valmatic@valmaticsrl.com)

1.5 MANUFACTURING COMPANY: Multichem s.a.s. - Via Cavour 62 - 20086 Motta Visconti (MI) Italy – Tel. +39 02 90008002 Fax +39 02 90007887. Competent person responsible for the Safety Data Sheet: Dr. Gabriele Segalla – Tel. +39 3394571231 email: [segalla@tin.it](mailto:segalla@tin.it)

1.6 EMERGENCY TELEPHONE NUMBERS: *DE'LONGHI APPLIANCES Srl - Via L. Seitz, 47 - 31100 Treviso – ITALY. Tel. +39 (0)422 4131 Fax. +39 (0)422 413736* – Persona referente: Paolo Evangelisti cell. +39 335 1813571 e-mail: [paolo.evangelisti@delonghi.it](mailto:paolo.evangelisti@delonghi.it)

### 2. HAZARDS IDENTIFICATION

Irritating to eyes and skin: Risk of serious damage to eyes.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 GENERAL DESCRIPTION: Aqueous buffered solution of lactic acid and sodium. Not volatile, not inflammable, not comburent product. No dangerous

3.2 SUBSTANCES PRESENTING A HEALTH OR ENVIRONMENTAL HAZARD:

30 - 50% : Lactic acid CAS Nbr. 79-33-4 EINECS Nbr. 201-196-2 Xi R38 R41 S26 S39  
Regulation EC 1907/2006 Pre-registration Nbr. 05-2116355858-28-0000

### 4. FIRST AID MEASURES

4.1 GENERAL ADVICE: Show this safety data sheet to the doctor in advance.

4.2 SKIN CONTACT: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If irritation or tissue damage persist, get medical attention.

4.3 EYE CONTACT: Immediately flush eyes with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists, get medical attention.

4.4 INGESTION: Wash out mouth with water provided person is conscious. Do not force vomiting. Call a physician immediately.

4.5 INHALATION: Move to fresh air.

### 5. FIRE-FIGHTING MEASURES

5.1 The preparation is not inflammable. In case of fire occurring nearby, use following extinguishing media: water spray, carbon dioxide, dry chemical powder or appropriate foam.

5.2 Extinguishing media which must not be used for safety reasons: None.

5.3 Specific hazards: Thermal decomposition can lead to release of irritating gases and vapors.

5.4 Protection of first-aiders: Use personal protective equipment. Avoid contact with skin and eyes.

### 6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS: Avoid contact with skin and eyes.

6.2 ENVIRONMENTAL PRECAUTIONS: Prevent further leakage or spillage. No special environmental precautions required.

6.3 METHODS FOR CLEANING UP: Dam up. Neutralize with soda or sodium carbonate and flush with plenty of water. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water.

### 7. HANDLING AND STORAGE

7.1 HANDLING: Avoid contact with skin and eyes. Avoid temperatures above 392°F (200°C).

7.2 STORAGE CONDITIONS: Keep in a dry, cool place.

7.3 PACKAGING MATERIAL: Plastic or stainless steel 316L containers.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Insure adequate ventilation, especially in confined areas..

Control parameters: None

Respiratory protection: Not required

Hand protection: Rubber gloves

Eye protection: Face-shield, tightly fitting safety goggles

Skin and body protection: Not required

Hygiene measures: When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.

**PHYSICAL AND CHEMICAL PROPERTIES**

9.1 PHYSICAL STATE:	Liquid
9.2 COLOR:	transparent, yellowish
9.3 ODOR:	typical
9.4 pH	2,60 - 2,90 (20°C 68°F))
9.5 BOILING TEMP.	101-103°C (213,8-217,4°F)
9.6 FREEZING POINT	approx. -7 °C (19,4°F)
9.7 DECOMP. TEMP.	>200°C (>392°F)
9.8 RELATIVE DENSITY	1,09-1,11 (20°C 68°F)
9.9 FLASH POINT:	n/a
9.10 AUTOIGNITION TEMPERATURE:	n/a
9.11 WATER SOLUBILITY	complete

**10. STABILITY AND REACTIVITY**

10.1 SHELF LIFE:	Stable in normal environmental conditions. Hazardous polymerisation does not occur.
10.2 CONDITIONS TO AVOID:	Avoid temperatures > 200°C (>392°F),
10.3 MATERIALS TO AVOID:	Strong oxidizing agents.
10.4 HAZARDOUS COMBUSTION	

OR DECOMPOSITION PRODUCTS: Product is not flammable; combustion can lead to release irritant vapours and gases.

**11. TOXICOLOGICAL INFORMATION**

Acute toxicity of Lactic acid LD50 oral/rat: 3730 mg/Kg; Sodium lactate LD50 oral/rat: 2000 mg/Kg

Local effects: Irritating to eyes and skin. Risk of serious damage to eyes. Inhalation of mist causes irritation of respiratory system.

Specific effects: did not show carcinogenic effects in animal experiments. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Further information: Lactic acid and Sodium lactate as important metabolites in man, animals and plants, are naturally formed and metabolised. They are recognized by FDA as food additives GRAS (Generally Recommended As Safe). EEC Food additives : E270 and E325.

### 12. ECOLOGICAL INFORMATION

The product at its current concentrations does not have adverse effects for the environment. Readily biodegradable, according to appropriate OECD test.

Bioaccumulation: none

Ecotoxicity of lactic acid: EC50/48h/Daphnia = 240mg/l ; LC50/48h/Fish = 320 mg/l; EC50/Algae = 3500 mg/l (neutral).

Further information: Natural product.

### 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Can be disposed as waste water, when in compliance with local regulations. Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging: Clean container with water. Empty containers should be taken for local recycling, recovery or waste disposal.

Further information: According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

### 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

14.1 RID/ADR No classification assigned

14.2 IMDG No classification assigned

14.3 ICAO/IATA No classification assigned

14.4 NUMBER UN /

### 15. REGULATORY INFORMATION

15.1 SYMBOLS Xi - Irritant

15.2 RISK PHRASES R R38 – Irritating to skin

R41 – Risk of serious damage to eyes

15.3 SAFETY ADVICES S S2: Keep out of the reach of children

S24/25: Avoid any inhalation, contact with skin and eyes.

S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S46: If swallowed, seek medical advice immediately and show this container or label

15.4 CONTAINS /

15.5 EEC Food additives: E270 / E325 USA: FDA/GRAS Status, Japan: JSFA .

German Water Hazard (WGK): 1

## 16. OTHER INFORMATION

List of relevant R phrases referred to under headings 2 and 3 of the safety data sheet:

R38 – Irritating to skin; R41 – Risk of serious damage to eyes

This information only concerns the above mentioned product and is not valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product. This safety data sheet cancels and substitutes any possible earlier revision.