



SAFETY DATA SHEET

Delonghi Entalker – De scaler

19 April 2010

Safety Data Sheet

1. Identification of the substance/preparation and of the company undertaking

- 1.1 Identification of the preparation; DeLonghi Entalker – Descaler
- 1.2 Use of the preparation; De-scaling agent , in aqueous solution for steam coffee machines
- 1.3 Distribution Company: DeLonghi Appliances Srl – Via L Seitz 47 – 31100 Treviso Italy
Tel +39 (0) 42 422 413 513 Fax;+ 39 (0) 422 413 736
- 1.4 Packaging Company: Valmatic Srl – 41030 San Prospero (Mo) – Via Turati 5 Italy
Tel; 059 906550
- 1.5 Manufacturing Company; Multichem s.a.s – Via Cavour 62 – 20086 Motta Visconti (MI)
Italy. Tel; +39 02 9000 8002 Fax; +39 02 9000 7887
- 1.6 Emergency Number; DeLonghi Appliances Srl – Via L Seitz 47 31100 Treviso Italy
+39 (0) 422 4131 Fax; +39 0422 413 736

2. Hazard Identification;

Irritation to the eyes and skin; Risk of serious damage to the eyes

3. Composition / Information on ingredients

- 3.1 General Description: Aqueous buffered solution of lactic acid and sodium. Not volatile, not inflammable , not combustible , not 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 number. 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 of immediately with soap and water while removing all contaminated clothes and shoes. If irritation or tissue damage persist and seek medical attention
- 4.3 Eye Contact; Immediately flush the eyes with plenty of water , also under the eyelids for at least 15 minutes. If irritation persist and seek medical attention.
- 4.4 Ingestion; wash out mouth with water providing the person is conscious. Do Not Force vomiting. Call a doctor immediately
- 4.5 Inhalation; move to fresh air

5. Fire Fighting Measures;

- 5.1 the preparation is not flammable. In case of fire nearby , use the following extinguisher; water spray , carbon dioxide , dry chemical powder or appropriate foam.
- 5.2 Extinguisher which must not be used; None
- 5.3 Specific Hazards; Thermal decomposition can lead to release irritating gases and vapours
- 5.4 Protection for 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; Contain the flow. Neutralise 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 properly labelled containers. After cleaning , flush away traces with water.

7. Handling and Storage

- 7.1 Avoid contact with skin and eyes. Avoid temperature 200 degrees Celsius)
- 7.2 Storage Conditions; Keep in a dry 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; None

Hand Protection; Rubber gloves

Eye Protection; Face shield , tight fitting safety glasses

Skin & Body protection; Not required

Hygiene Measures; when using , do not eat , drink or smoke. Remove and wash contaminated clothing.

9. Physical and Chemical Properties.

- 9.1 Physical state; Liquid
- 9.2 Colour; Transparent , yellowish
- 9.3 Odour; typical
- 9.4 pH 2,60 – 2,90 (20°C 68° F)
- 9.5 Boiling point
- 9.6 Freezing point approx. – 7° C
- 9.7 Decomp Point >200° C
- 9.8 Relative Density
- 9.9 Flash point na
- 9.10 Auto ignition Temperature na
- 9.11 Water solubility Complete

10 Stability and Reactivity

- 10.1 Shelf Life Stable in normal environmental conditions. Hazardous polymerization does not occur.
- 10.2 Conditions to avoid Avoid temperatures >200° C
- 10.3 Materials to avoid strong oxidizations agents
- 10.4 Hazardous Combustion or Decomposition of products; product is not flammable, combustion can lead to release irritant vapours and gases

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11. Toxicological Information

Acute toxicity of lactic acid LD oral/ratio: 3730mg?Kg; sodium lactate LD oral/ratio: 2000mg?Kg

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

Special 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, animal and plants , are naturally form and metabolised. They are recognised by FDA as food additives GRAS (Generally recommended as safe)

12. Ecological Information

The product at its current concentrations does not have adverse effects on the environment.

Readily biodegradable , according to appropriate OECD test

Bioaccumulation: none

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

13. Disposal Considerations

Waste from residues/unused products: Can be disposed in water , when in compliance with local regulations. Can be land filled 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 containers are not product specific , but application specific. Waste codes should be assigned by the user based on application for which product was used.

14 Transport Considerations

Not classified as dangerous in the meaning of transport regulations.

14.1 RID/ADR No classification

14.2 IMDG No classification

14.3 ICAO/IATA No classification

14.4 Number UN

15. Regulatory Information

15.1 Symbols XI – Irritant

15.2 Risk Phrases R38 – irritating to skin

R41 – Risk of serious eye damage

15.3 Safety Advise S2: Keep out of 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 label

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15.4

15.5 EEC Food additives: E270 / E325 USA: FDA/GRAS status, Japan: JSFA
Germany 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 the skin; R41- Risk of serious damage to eyes

This information only concerns the above mentioned product and is not valid if used with other products or in any process. The information is to our best present knowledge correct and complete and is given in good faith but with out warranty. It remains the users responsibility to make sure that the information is appropriate and complete for his / her special use of the product. This safety data sheet cancels and substitutes any possible earlier version