Security Data Sheet

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name **MILK CLEAN**

1.2. Relevant identifier uses of the substance or mixture and uses advised against

Intended use **DEGREASER FOR THE FROTHING SPOUTS OF CAPPUCCINO COFFEE MACHINES**

1.3. Details of the supplier of the safety data sheet

Name **De'Longhi Appliances s.r.l.**
Full address **via Lodovico Seitz, 47**
District and Country **30100 Treviso (TV)**
ITALY

Ph. +39 0422 4131 (08:00/12:00 - 13:00/17:00)

Fax +39 0422 413736

e-mail address of the competent person

responsible for the Safety Data Sheet **msds.helpdesk.delonghi@delonghigroup.com**

1.4. Emergency telephone number

For urgent inquiries refer to

Poison Centre (24/24h)
UK
+44 28 90 63 2032 (Belfast)
+44 121 507 4123 (Birmingham)
+44 131 242 1383 (Edinburgh)
+44 191 2606182/+44 191 2606180 (Newcastle)
+44 292 071 55 54 (Penarth)
Australia
+61 7 363 68 148 (Brisbane)
+61 394 96 4509 (Heidelberg)
+61 893 46 1943 (Nedlands)
+61 2 9845 3969 (Sydney)
New Zealand
+64 3 479 7227 (Dunedin)
South Africa
+27 514 013 090 (Bloemfontein)
+27 21 658 53 08 (Rondebosch)
+27 21 931 61 29 (Tygerberg)
Hong Kong
+852 2772 2211 (United Christian Hospital-Kowloon)

SECTION 2. Hazards identification..

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements. The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Eye Irrit. 2 H319

2.2. Label elements.

Hazard pictograms:

Signal words: attention
Hazard statements:
H319 Causes serious eye irritation.

Precautionary statements:
P101 – If medical advice is needed, have product container or label at hand.
P102 – Keep out of reach of children.
P264 – Wash hands thoroughly after handling.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 – If eye irritation persists: Get medical advice/attention.

2.3. Other hazards.
Information not available.

SECTION 3. Composition/information on ingredients.

3.2. Mixtures..
Contains:

Substance.	**Conc. %.**	**Classification 1272/2008 (CLP).**	
ETHYLENE DIAMINE TETRASODIUM SODIUM TETRAACETATE	1 ≤ C < 5	Acute Tox. 4	H302
CAS. 64-02-8		Acute Tox. 4	H332
CE. 200-573-9		Eye Dam. 1	H318
INDEX. 607-428-00-2		STOT RE3	H373
REACh No. 01-2119486762-27			
ETHANOLAMINE	0,1 ≤ C < 1	Skin Corr. 1B	H314
CAS. 141-43-5		Aquatic Acute 1	H400
CE. 205-483-3		Acute Tox. 4	H302
INDEX. 603-030-00-8		Acute Tox. 4	H312
REACh No \ 01-2119486455-28			

The meaning of H phrases is explained at section 16.

SECTION 4. First aid measures.

4.1. Description of first aid measures.
Eyes: Wash with plenty of water for at last 15 min If symptoms occur, get medical attention.
Skin: remove contaminated clothing, take a shower, in case consult a doctor.
Ingestion: Drink a large amount of water. Consult a doctor. Do not induce vomit without authorization of a doctor.
Inhalation: Unlikely due to the solid physical state.

4.2. Most important symptoms and effects, both acute and delayed.
No episodes of damage to health ascribable to the product have been reported. For more information, see section 11.

4.3. Indication of any immediate medical attention and special treatment needed.
Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT Avoid water jet. Water may be used to cool closed containers to prevent pressure build up and possible auto ignition or explosion when exposed to extreme heat.

5.2. Special hazards arising from the substance or mixture.
HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Pressure build up can occur with explosion risk. Avoid inhalation of material or combustion by-products.

5.3. Advice 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 fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.
Stop the flow of material, if this is without risk.
6.1.1 Personal precautions:
Keep away and wait until emergency personnel bring back to safe the area.
6.1.2 For emergency responders:
Wear appropriate protective equipment and clothing.

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

6.3. Methods and material for containment and cleaning up.
Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.
Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.
Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use

7.2. Conditions for safe storage, including any incompatibilities.
Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.
Incompatible with Strong acids, alkali metals;

7.3. Specific end use(s)..
Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

ETHANOLAMINE

Kind	State	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
MAK	AUS	2,5	1	7,6	3	Skin.

VLEP	BEL	2,5	1	7,6	3	Skin.
VEL	CHE	5	2	10	4	
MAK	CHE	5	2	10	4	
AGW	DEU	5,1	2	10,2	4	Skin.
MAK	DEU	5,1	2	10,2	4	
VLEP	FRA	2,5	1	7,6	3	Skin.
WEL	GRB	2,5	1	7,6	3	Skin.
OEL	IRL	2,5	1	7,6	3	Skin.
VLEP	ITA	2,5	1	7,6	3	Skin.
OEL	EU	2,5	1	7,6	3	Skin.
TLV-ACGIH		7,5	3	15	6	

8.2. Exposure controls.

Observance of safety measures used in handling chemical substances.
HAND PROTECTION: wear gloves cat III.
SKIN PROTECTION wear professional clothing.
EYE PROTECTION: suggested to wear chemical goggles or face shield
RESPIRATORY PROTECTION None required

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Physical state	Liquid
Colour	colourless
Odour	Characteristic
pH.	~11
Melting point	>60°C
Boiling point.	n.a.
Flash point.	Not flammable
Vapour pressure.	Not available.
Density.	1.01 Kg/L
Solubility	soluble

SECTION 10. Stability and reactivity.

10.1. Reactivity..

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

10.2. Chemical stability.

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

10.3. Possibility of hazardous reactions.

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

10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected. Avoid heating and solar radiation exposure.

10.5. Incompatible materials.

Strong oxidant.

10.6. Hazardous decomposition products.

Does not occur in normal condition.

SECTION 11. Toxicological information.

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled according to good industrial practices.

11.1. Information on toxicological effects.
a) acute toxicity:
Based on calculation and data on raw materials, the mixture does not present this hazard.
b) Skin corrosion/irritation:
Based on calculation, pH and data on raw materials, the mixture does not present this hazard
c) Serous eye damage/irritation:
Based on calculation and data on raw materials, the mixture presents this hazard (eye irritation)
d) sensitization (skin or respiratory):
Based on calculation and data on raw materials, the mixture does not present this hazard
e) mutagenicity on germ cells:
Based on calculation and data on raw materials, the mixture does not present this hazard
f) carcinogenicity:
Based on calculation and data on raw materials, the mixture does not present this hazard
g) reproductive toxicity:
Based on calculation and data on raw materials, the mixture does not present this hazard
h) STOT — single exposure:
Based on calculation and data on raw materials, the mixture does not present this hazard
i) STOT — repeated exposure:
Based on calculation and data on raw materials, the mixture does not present this hazard
j) aspiration hazard:
Based on calculation and data on raw materials, the mixture does not present this hazard

SECTION 12. Ecological information.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

12.1. Toxicity..
The product is not dangerous for the environment.

12.2. Persistence and degradability.
Information not available.

12.3. Bioaccumulative potential.
Information not available.

12.4. Mobility in soil.
Information not available.

12.5. Results of PBT and vPvB assessment.
On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects.
Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.
Reuse, when possible. Neat product residues should be considered special non-hazardous waste.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Avoid littering. Do not contaminate soil, sewers and waterways.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations

SECTION 15. Regulatory information.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

Seveso category. None
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006. None
Substances in Candidate List (Art. 59 REACH). None.
Substances subject to authorisation (Annex XIV REACH). None.
Substances subject to exportation reporting pursuant to (EC) Reg. 689/2008: None.
Substances subject to the Rotterdam Convention: None
Substances subject to the Stockholm Convention: None.
Healthcare controls: not necessary

Composition following Reg 648/2004
< 5% EDTA and its salt thereof, amphoteric surfactant. 5 e 15% non-ionic surfactant.

15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture.

SECTION 16. Other information.

Full text of H-Statements referred to under sections 2 and 3
H302: Harmful if swallowed
H312: Harmful in contact with skin
H314: Causes severe skin burns and eye damage
H318: Causes serious eye damage
H332: Harmful if inhaled
H335: May cause respiratory irritation
H373: May cause damage to organs through prolonged or repeated exposure
H412: Harmful to aquatic life with long lasting effects

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labelling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as Reach Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation.

GENERAL BIBLIOGRAPHY
1. Regulation (EC) 1907/2006 (REACH) of the European Parliament

2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EC) 453/2010 of the European Parliament
5. Regulation (EC) 286/2011 (II Atp. CLP)
6. Regulation (EC) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (UE) 487/2013 of the European Parliament (IV Atp. CLP)
8. Regulation (UE) 944/2013 of the European Parliament (V Atp. CLP)
9 . Regulation (UE) 605/2014 of the European Parliament (VI Atp. CLP)
10. Regulation (CE) 830/2015
11. The Merck Index. - 10th Edition
12. Handling Chemical Safety
13. Niosh - Registry of Toxic Effects of Chemical Substances
14. INRS - Fiche Toxicologique (toxicological sheet)
15. Patty - Industrial Hygiene and Toxicology
16. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
17. ECHA website
18. MSDS of single component.

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.

Modified part:
1.4