Safety Data Sheet

According to Reg. (CE) 1907/2006 modified by Reg. (UE) 2020/878

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

1.1. Product identifier

Code:	**---**
Product name	**ECO MULTICLEAN**

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

Intended use	Universal detergent for coffee machine
Not-recommended use	Any use not specified in this section or in section 7.3.

1.3. Details of the supplier of the safety data sheet

Name	**De'Longhi Appliances S.r.l.**
Address	**via Lodovico Seitz, 47**
City and Country	**31100 Treviso (TV)** **ITALIA**
	tel. +39 (0)422 4131 (Switchboard– office hours Mon-Fri 08:00am – 5:00pm) **fax +39 (0)422 413736** **Toll-free number 800 854040 (Mon-Fri 08:00am-6:30pm /Sat 08:00am -12:00pm)**
e-mail of person responsible of data sheet	**http://www.delonghi.com** **msds.helpdesk.delonghi@delonghigroup.com**

1.4. Emergency telephone number

For urgent inquiries refer to

Regional Medicines and Poisons Information Centre NI	Belfast	844 892 0111	nirdic.nirdic@belfasttrust.hscni.net
National Poisons Information Service (Birmingham Unit)	Birmingham	844 892 0111	mail@npis.org
National Poisons Information Service (Edinburgh Unit)	Edinburgh	844 892 0111	spib@luht.scot.nhs.uk
National Poisons Information Service (Newcastle Unit)	Newcastle Upon Tyne		newcastlenpis@nuth.nhs.uk
National Poisons Information Service (Cardiff Unit)	Penarth	844 892 0111	poisons.information@cardiffandvale.wales.nhs.uk

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is classified as not hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements, as it contains no substances in concentration that is necessary to declare at section 3. However, for the product a safety datasheet is available, 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: none

2.2. Label elements.

Hazard pictograms: none
Signal words none
Hazard statements: none
Precautionary statements: none
Reg. (CE) 648/2004. < 5% amphoteric surfactant, 5-15% non ionic surfactant

2.3. Other hazards.

Based on available data, the product does not contain PBT or vPvB substances in percentages higher than 0.1%.
The mixture contains no substances listed for endocrine disrupting properties greater than 0.1%.

SECTION 3. Composition/information on ingredients.

3.2. Mixtures.

Contains:

Substance.	Conc. %.	Classification 1272/2008 (CLP).	
2-PROPYLHEPTANOL ETHOXYLATED, PROPOXYLATED	5 ≤ C < 10	Eye Irrit. 2	H319
CAS No 166736-08-9			
EINECS No 605-450-7			
REACh No -			

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.
Ingestion: Drink a large amount of water. In case, consult a doctor. Do not induce vomit without authorization of a doctor.
Inhalation: Ventilate the premises. The patient is to be removed from the contaminated premises and made to rest in a well ventilated area. Should the patient feel unwell, obtain medical attention.

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
Thermal combustion leads to the development of toxic and irritating vapours including carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx). Avoid breathing fumes or vapours. Exposure to combustion and decomposition products can be harmful to health.

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 For non-emergency personnel:
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.

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

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Descrizione		State	TWA/8h		STEL/15min		
			mg/m3	ppm	mg/m3	ppm	
MONOETHANOLAMINE	TLV-TWA		7.5	3			
	TLV-STEL		15	6			
	OEL	EU	2,5	1	7,6	3	Skin
	VLEP	ITA	2,5	1	7,6	3	Skin
	WEL	GBR	2,5	1	7,6	3	Skin
	VLEP	FRA	2,5	1	7,6	3	Skin
	VLA	ESP	2,5	1	7,6	3	Skin

Concentration of no effect - PNEC	
Reference value fresh water	0,085 mg/l
Reference value sea water	0,0085 mg/l
Reference value fresh water sediment	0,434 mg/kg
Reference value sea water sediment	0,0434 mg/kg
Reference value water intermittent discharge	0,028 mg/l
Reference value microorganism STP	100 mg/l
Reference value terrestrial	0,0367 mg/kg

Health – Level of no effect - DNEL / DMEL

	Effect on consumer				Effect on workers			
Exposure	Local Acute	Systemic Acute	Local Chronic	Systemic Chronic	Local Chronic	Local Acute	Systemic Acute	Systemic Chronic
Oral			VND 3,75mg/kg					
Inhalation			VND 2 mg/Kg				VND	3.3 mg/Kg
Dermal			VND 0,24 mg/Kg				VND	1 mg/Kg

8.2. Exposure controls.

Observance of safety measures used in handling chemical substances.
HAND PROTECTION: Not needed for normal use
SKIN PROTECTION Not needed for normal use.
EYE PROTECTION: suggested to wear chemical goggles or face shield.
RESPIRATORY PROTECTION Not needed for normal use.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

a)	Physical state	liquid
b)	Colour	colourless
c)	Odour	characteristic
d)	Melting point (1013 hPA)	< 0 °C
	Freezing temperature (1013 hPA) :	Not determined
e)	Boiling point or initial boiling point and boiling range (1013 hPA)	> 100 °C
f)	Flammability	Not available
g)	Lower and upper explosion limit	Not applicable. (not flammable liquid)
h)	Flash point.	> 60 °C.
i)	Auto-ignition temperature.	Not determined
j)	Decomposition temperature.	Not determined
k)	pH.	11 ca
l)	Kinematic viscosity	Not determined.
m)	Solubility	Soluble in water
n)	Partition coefficient n-octanol/water:	Not determined (mixture soluble only in water)
o)	Vapour pressure.	Not available.
p)	Density and/or relative density.	~1,01 g/cm3
q)	Relative vapour density	Not determined
r)	Particle characteristics	Not applicable (liquid mixture)

9.2. Other information.

VOC (Directive 1999/13/CE) :	0,80 %	-	8,08	g/l.
VOC (volatile organic carbon) :	0,31 %	-	3,17	g/l

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. Do not mix with strong oxidant.
10.5. Incompatible materials.
None.
10.6. Hazardous decomposition products.
With thermal decomposition or in case of fire, gases and vapours potentially harmful to human health can be released. Carbon dioxide, Carbon monoxide.

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 hazard classes as defined in Regulation (EC) No 1272/2008
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 does not present this hazard
d) respiratory or skin sensitisation:
Based on calculation and data on raw materials, the mixture does not present this hazard
e) germ cell mutagenicity:
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

11.2. Information on other hazards
11.2.1. Endocrine disrupting properties
The mixture contains no substances listed for endocrine disrupting properties greater than 0.1%.
11.2.2. Other information
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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. Endocrine disrupting properties
The mixture contains no substances listed for endocrine disrupting properties greater than 0.1%.
12.7. 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
14.1. UN number or ID number.
No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name.
No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es).
No dangerous good in sense of these transport regulations.
14.4. Packing group.
No dangerous good in sense of these transport regulations.
14.5. Environmental hazards.
No dangerous good in sense of these transport regulations.
14.6. Special precautions for user.
No dangerous good in sense of these transport regulations.
14.7. Maritime transport in bulk according to IMO instruments.
Not pertinent information..

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
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
H319 Causes serious eye irritation

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) 286/2011 (II Atp. CLP)
5. Regulation (EC) 618/2012 (III Atp. CLP) of the European Parliament
6. Regulation (UE) 487/2013 of the European Parliament (IV Atp. CLP)
7. Regulation (UE) 944/2013 of the European Parliament (V Atp. CLP)
8 . Regulation (UE) 605/2014 of the European Parliament (VI Atp. CLP)
9. Regulation (CE) 830/2015 of the European Parliament (VI Atp. CLP) amending Regulation (EC) No 1907/2006 (REACH)
10. Regulation (EU) 2015/1221 of the European Parliament (VII ATP CLP)
11 Regulation (EU) 2016/918 of the European Parliament (VIII ATP CLP)
12 Regulation (EU) 2016/1179 of the European Parliament (IX ATP CLP)
13 Regulation (EU) 2017/776 of the European Parliament (X ATP CLP)
14 Regulation (EU) 2018/669 (XI ATP CLP)
15 Regulation (EU) 2018/1480 (XIII ATP CLP)
16 Regulation (EU) 2019/521 (XII ATP CLP)
17 Regulation (EU) 2020/878
18. The Merck Index. - 10th Edition
19. Handling Chemical Safety
20. Niosh - Registry of Toxic Effects of Chemical Substances
21. INRS - Fiche Toxicologique (toxicological sheet)
22. Patty - Industrial Hygiene and Toxicology
23. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
24. ECHA website
25. MSDS of single components.

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 parts. 01, 02, 05, 06, 09, 10, 11, 12, 14, 16.