Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Date last verification : 2019-11-20
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Version : 15.0

Indication of changes : §**3** - §**9.1**

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

1.1. Product identifier

Safety Data Sheet : 26453
Product code : 8826 700 47540

Product name: : SAECO DECALCIFIER FOR ESPRESSO MACHINES / DETARTRANT POUR MACHINES A ESPRESSO CA6700

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

Relevant identified uses : No information available.

Uses advised against : No information available.

1.3. Details of the supplier of the safety data sheet

Supplier : PHILIPS CONSUMER LIFESTYLE, DRACHTEN

Oliemolenstraat 5 9203 ZN Drachten Netherlands	Tussendiepen 4 9206 AD Drachten Netherlands
Telephone : n.a.	n.a.
Telefax: : n.a.	n.a.

1.4. Emergency telephone number

Emergency telephone number (regarding transport of DG) : +31 (0)497-598315

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP]

Serious eye damage/eye irritation	Category 1	H318

2.1.2. Additional information

Full text of H- and EUH-statements: see section 16.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

Signal word : Danger !

Hazard statements

H318	Causes serious eye damage.

Precautionary Statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P280.3	Wear 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.
P310	Immediately call a POISON CENTER or doctor/physician.

Hazardous ingredients L-(+)-LACTIC ACID

Remarks on labelling none.

2.3. Other hazards

No information available.

SECTION 3: Composition / information on ingredients

3.2. Mixture

Substance name	CAS No.	EC No.	REACH No.	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]
WATER	7732-18-5	231-791-2		≥65.0	
CITRIC ACID MONOHYDRATE	5949-29-1	201-069-1	01-2119457026-42	<25.0	GHS07 H319 Eye Irrit. 2
L-(+)-LACTIC ACID	79-33-4	201-196-2	01-2119474164-39	<10.0	GHS05 H315 Skin Irrit. 2 H318 Eye Dam. 1

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information : Remove casualty to fresh air and keep warm and at rest. Transport affected person in lying position, in case of shortness of breath in half-sitting position. Remove contaminated, saturated clothing immediately. Do not leave affected person unattended. Remove affected person from the danger area and lay down.

Following inhalation : In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

Following skin contact : Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water. When in doubt or if symptoms are observed, get medical advice.

After eye contact : In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion : Rinse mouth thoroughly with water. Give nothing to eat or drink. Call a physician in any case!

Self-protection of the first aider : No special measures are necessary.

4.2. Most important symptoms and effects, both acute and delayed

Following skin contact	**local**	:	The substance is irritating: redness, pain. Degreasing: in case of sustained contact a rough, dry skin, eczema.
	systemic	:	Probably no absorbtion worth mentioning.
After ingestion	**local**	:	The substance is irritating: sore throat, abdominal pain.
	systemic	:	The substance may be absorbed after ingestion.
Following inhalation	**local**	:	The substance is with atomising irritating: sore throat, coughing.
	systemic	:	Probably no absorbtion worth mentioning.
After eye contact	**local**	:	The substance is corrosive: redness, pain, poor vision.
Other information		:	The substance has an effect on: the blood.

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

Notes for the doctor : Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO_2). ▪ Dry extinguishing powder. ▪ Water spray jet. ▪ alcohol resistant foam.

Unsuitable extinguishing media : No information available.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated : Carbon monoxide

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing. (EN 469)

5.4. Additional information

Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protection equipment.

6.1.1. For non-emergency personnel

Protective equipment : Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Emergency procedures : not applicable.

6.1.2. For emergency responders

Personal protection equipment : Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure waste is collected and contained.

6.3. Methods and material for containment and cleaning up

6.3.1. For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

6.3.2. For cleaning up

Collect in closed and suitable containers for disposal. Clean contaminated articles and floor according to the environmental legislation.

6.3.3. Other information

not determined

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling : Provide adequate ventilation.

Measures to prevent fire : No information available.

Measures to prevent aerosol and dust generation : No information available.

Environmental precautions : Avoid release to the environment.

Advices on general occupational hygiene : When using do not eat, drink, smoke, sniff.Take off contaminated clothing.Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions : Keep/Store only in original container. Keep container tightly closed. ▪ frost free.

storage temperature : No information available.

Requirements for storage rooms and vessels : No information available.

Storage class : No information available.

Materials to avoid : No information available.

Further information on storage conditions : No information available.

7.3. Specific end use(s)

Recommendation : not applicable

Industrial sector specific solutions : No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

		Germany		Switzerland		Russia			
Substance name	Limit value	mg/m³	ppm	mg/m³	ppm	mg/m³	ppm		
CITRIC ACID MONOHYDRATE		(inhalable dust)		(inhalable dust)					
	8 hour(s)	2		2		1			
	15 minutes	4		4					
	C								

Source : TRGS 910, Austrian OEL Regulation, SUVA, Dutch Health Council, 2006/15/EC, 2004/37/EC, Dutch Social-Economic Council (SER), US OSHA, LOLI DB, 2000/39/EC, EU OSHA, GWBB/VLEP, TRGS 900, Gestis, 91/322/EEC, 2017/164/EU, INRS (Fr), ACGIH®, 2009/161/EU, TRGS 905

20 °C, 1013 mbar: European Union / China / South Korea
25 °C, 1013 mbar: United States / Canada / Japan
[x]: appraisal period x minutes
C: peak limitation
H: skin resorptive
S: Statutory threshold limit value
ALARA: As low as reasonably achievable (ALARA principle).

Remark Occupational exposure limit values

none

DNEL (Derived No Effect Level)

No information available.

PNEC (Predicted No Effect Concentration)

Substance name	aquatic, freshwater [mg/l]	aquatic, marine water [mg/l]	aquatic, intermittent release [mg/l]	sewage treatment plant [mg/l]	sediment, freshwater [mg/kg sediment dw]	sediment, marine water [mg/kg sediment dw]	soil [mg/kg soil dw]
CITRIC ACID MONOHYDRATE	0.44	0.044		1000	34.6	3.46	33.1

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Safe handling: see section 7

8.2.2. Personal protection equipment

Eye/face protection : acid-resistant goggles.

Skin protection

Hand protection : Suitable gloves type: Butyl caoutchouc (butyl rubber).

Body protection : Overall, Apron, Boots, goggles.

Respiratory protection : If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

8.3. Additional information

No further relevant information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : No information available.
Colour : colourless
Odour : characteristic
Odour threshold : No information available.
pH : 2.1
Melting point/freezing point : No information available.
Initial boiling point and boiling range : ≥100 °C
Flash point : No information available.
Evaporation rate : No information available.
flammability : No information available.

Upper/lower flammability or explosive limits

Upper explosion limit	:	No information available.
Lower explosion limit	:	No information available.
Vapour pressure	:	≤2.3 kPa (20 °C)
Vapour density	:	No information available.
Relative density	:	≥1.00 - ≤1.20 (water=1) (20 °C)
Solubility(ies)		
Water	:	very soluble

Partition coefficient: n-octanol/water

CITRIC ACID MONOHYDRATE	:	-1.7 ▪ Source: LOLI
L-(+)-LACTIC ACID	:	-0.54 ▪ Source: ECHA ▪ Method: OECD 107

Auto-ignition temperature	:	No information available.
Decomposition temperature	:	No information available.
Viscosity	:	No information available.
Explosive properties:	:	not applicable
Oxidising properties	:	not applicable

9.2. Other information

Critical temperature Tc	:	not applicable
Fat solubility	:	No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Stable under recommended storage and handling conditions.

10.5. Incompatible materials

Oxidising substances ▪ metals ▪ Reducing agent ▪ metal nitrates ▪ alkali

10.6. Hazardous decomposition products

No known hazardous decomposition products.

10.7. Additional information

No information available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

After ingestion	:	No
Skin contact	:	No
Inhalation	:	No

Substances	Dose / Concentration	Value	Species	Exposure time	Method
CITRIC ACID MONOHYDRATE					
oral	LD50:	5400 mg/kg	Rat		OECD 401
dermal	LD50:	>2000 mg/kg	Rat		OECD 402
L-(+)-LACTIC ACID					
oral	LD50:	3543 mg/kg	Rat		
dermal	LD50:	>2000 mg/kg	Rabbit		
Inhalation (vapour)	LC50:	>7.94 mg/l	Rat	4 hour(s)	OECD 403

Skin corrosion/irritation	:	not applicable
Serious eye damage/eye irritation	:	Causes serious eye damage.
Respiratory or skin sensitisation	:	not applicable

Germ cell mutagenicity : not applicable

Carcinogenicity : not applicable

Reproductive toxicity : not applicable

STOT-single exposure : not applicable

STOT-repeated exposure : not applicable

Aspiration hazard :

Symptoms

Following skin contact	**local**	:	The substance is irritating: redness, pain. Degreasing: in case of sustained contact a rough, dry skin, eczema.
	systemic	:	Probably no absorbtion worth mentioning.
After ingestion	**local**	:	The substance is irritating: sore throat, abdominal pain.
	systemic	:	The substance may be absorbed after ingestion.
Following inhalation	**local**	:	The substance is with atomising irritating: sore throat, coughing.
	systemic	:	Probably no absorbtion worth mentioning.
After eye contact	**local**	:	The substance is corrosive: redness, pain, poor vision.
Other information		:	The substance has an effect on: the blood.

SECTION 12: Ecological information

12.1. Toxicity

Substance name	Acute (short-term) fish toxicity	Acute (short-term) toxicity to crustacea	Acute (short-term) toxicity to aquatic algae and cyanobacteria	Toxicity to other aquatic plants/organisms
CITRIC ACID MONOHYDRATE	LC50: >100 mg/l 96 hour(s) Fish ▪ Source: ECHA	EC50: >50 mg/l 48 hour(s) Daphnia ▪ Source: ECHA		
L-(+)-LACTIC ACID	LC50: 320 mg/l 96 hour(s) Fish ▪ Source: ECHA ▪ Method: OECD 203	EC50: 250 mg/l 48 hour(s) Daphnia ▪ Source: ECHA ▪ Method: OECD 202	IC50: >2.8 mg/l 72 hour(s) Algae ▪ Source: ECHA ▪ Method: OECD 201	

12.2. Persistence and degradability

Biodegradation

CITRIC ACID MONOHYDRATE : Readily biodegradable (according to OECD criteria). ▪ Source: ECHA ▪ Method: OECD 301B

L-(+)-LACTIC ACID : Readily biodegradable (according to OECD criteria). ▪ Source: ECHA

Chemical oxygen demand (COD) : No information available.

Biochemical oxygen demand : No information available.

BOD5/COD ratio : No information available.

12.3. Bioaccumulative potential

Bioconcentration factor (BCF) : No information available.

Partition coefficient: n-octanol/water

CITRIC ACID MONOHYDRATE : -1.7 ▪ Source: LOLI

L-(+)-LACTIC ACID : -0.54 ▪ Source: ECHA ▪ Method: OECD 107

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available.

12.7. Additional ecotoxicological information

Observe local regulations concerning effluent treatment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of contents/container to industrial incineration plant. Following consultation with waste management company and after physico-chemical pre-treatment, landfill together with household waste.

Other disposal recommendations : not applicable

SECTION 14: Transport information

14.1. UN 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

Marine pollutant : No

14.6. Special precautions for user

No dangerous good in sense of these transport regulations.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

SECTION 15: Regulatory information

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

International regulations:

Minamata Convention on Mercury : not applicable

EU legislation

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

not applicable

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH:

not applicable

Overall Assessment on CMR properties

according to Regulation (EC) No. 1907/2006 (REACH) : not applicable

Regulation (EC) No 850/2004 [POP-Regulation]

not applicable

Regulation (EC) No. 2037/2000 concerning materials, which cause damage to the ozone layer.

not applicable

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.

15.2. Chemical Safety Assessment

No information available.

SECTION 16: Other information

Additional information

Specific requirements or handling rules Switzerland:
- SECTION 1: Identification
Importer/Only Representative: Philips AG, Lighting, Allmendstrasse 140, 8027 Zürich, Switzerland
Telephone: +41 (0)44/488 2211

Information telephone (Product): +41 (0)800/002050 (Monday - Friday 8:00 - 18:00)
Mobile network: +41 (0)848/000292 (Monday - Friday 8:00 - 18:00)
Swiss Toxicological Information Centre CH-8028 Zürich: +41 (0)44/2515151 or 145
- SECTION 13: Disposal considerations
Waste codes/waste designations according to EWC/AVV: 20 01 29

Relevant H-phrases (Number and full text)

H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Abbreviations and acronyms

ACGIH®	American Conference of Governmental Industrial Hygienists
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
AICS	Australian Inventory of Chemical Substances
BuAc	n-Butyl acetate
CAS	Chemical Abstracts Service
CCID	New Zealand Chemical Classification and Information Database
DSL	Canada Domestic Substances List
ECHA-RAC	ECHA Committee for Risk Assessment
EFSA	European Food Safety Authority
EHSP	OECD Environment, Health, and Safety Publication
EmS	Emergency Schedule
EU-CLH	European Union Harmonised Classification and Labelling
GESTIS	Databases on hazardous substances of the German Social Accident Insurance
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
GWBB-VLEP	Grenswaarden voor beroepsmatige blootstelling/Valeurs limites d'exposition professionnelle
HHS	U.S. Department of Health and Human Services
HSDB	Hazardous Substances Data Bank
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INRS	French National Research and Safety Institute for the Prevention of Occupational Accidents and Diseases
JP-GHS	Japan GHS Basis for Classification Data
KHC	Known human carcinogens.
LEL	Lower explosion limit
LOLI	LOLI (List of Lists) Database
n.a.	not applicable
NDSL	Canada Non-domestic Substance List
NICNAS	Australia National Industrial Chemicals Notification and Assessment Scheme
NIER	South Korea National Institute of Environmental Research Evaluations
NLM	United States National Library of Medicine
NTP	National Toxicology Program
NZIoC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
OSHA	Occupational Safety & Health Administration
OUE	European Odour Unit
RAHC	Reasonably Anticipated Human Carcinogen
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SCOEL	Scientific Committee on Occupational Exposure Limits (EU)
SIDS	OECD Screening Information Data Sets
SUVA	Swiss Accident Insurance Fund
TRGS	Technische Regeln für Gefahrstoffe
TSCA	The Toxic Substances Control Act Chemical Substance Inventory
TWA	Time Weighted Average
UEL	Upper explosion limit
UN	United Nations
US-EPA	United States Environmental Protection Agency