Safety Data Sheet

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

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Indication of changes : §**2.1** - §**2.2** - §**2.3** - §**3** - §**4.1** - §**4.2** - §**5.1** - §**5.2** - §**5.3** - §**6.1** - §**6.2** - §**6.3** - §**7.1** - §**7.2** - §**8.2** - §**9.1** - §**10.4** - §**10.6** - §**11.1** - §**13.1** - §**14.1** - §**14.2** - §**14.3** - §**14.4**

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

1.1. Product identifier

Safety Data Sheet : 26453
Product code : 4219 400 51701

Product name: : ACC GAG DECALCIFIER 250 ML 1 UNIT ; RI9111
Trade name/designation : GAGGIA DECALCIFIER

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

Relevant identified uses : Cleaning agent

Uses advised against : No information available.

1.3. Details of the supplier of the safety data sheet

Supplier : DAP B.V.

Tussendiepen 4a
9206AD Drachten
The Netherlands

Telephone :

Responsible for the compilation of the SDS on behalf of the supplier/ manufacturer : hazcom@philips.com

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]

Skin corrosion/irritation	Category 1C	H314
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

H314 Causes severe skin burns and eye damage.

Precautionary statements

P260.2	Do not breathe mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P280.5	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P405	Store locked up.
P501	Dispose of contents/container according to local hazardous waste disposal regulations.

Hazardous ingredients L-(+)-LACTIC ACID

Remarks on labelling none.

2.3. Other hazards

Special danger of slipping by leaking/spilling product.

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 H314 Skin Corr. 1C H318 Eye Dam. 1 EUH071

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information : Transport affected person in lying position, in case of shortness of breath in half-sitting position. Remove affected person from the danger area and lay down. Remove contaminated, saturated clothing immediately. Wear personal protection equipment (refer to section 8). Put victim at rest, cover with a blanket and keep warm. Do not leave affected person unattended. Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.

Following inhalation : In case of respiratory tract irritation, consult a physician.

Following skin contact : Rinse immediately with plenty of water for at least 15 minutes. Call a physician in any case! Open wounds should never be flushed with water to prevent infections. Place a sterile bandage on the wounded skin and contact a doctor immediately.

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. Protect uninjured eye.

Following ingestion : Rinse mouth thoroughly with water. Give nothing to eat or drink. Never give anything by mouth to an unconscious person or a person with cramps. Immediately call a doctor.

Self-protection of the first aider : First aider: Pay attention to self-protection!

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

Adverse human health effects and symptoms / Organs affected:

Organs affected:, lung

Following inhalation : Caustic sensation. May cause:, sore throat, Cough, Dyspnoea, Pulmonary oedema, Symptoms can occur only after several hours., Serious cases may cause:, May cause death

Following skin contact : Caustic sensation. May cause:, redness, pain, burns, blisters

After eye contact : Caustic sensation. May cause:, redness, pain, Impairment of vision

Following ingestion : Caustic sensation. May cause:, sore throat, Abdominal pain, Nausea, May cause asphyxiation due to cramp or swelling of the larynx.

Further information: SECTION 11: Toxicological information

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 : Fire class B: - Dry extinguishing powder. - alcohol resistant foam. - Carbon dioxide (CO2).

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated : Carbon monoxide - Carbon dioxide (CO2)

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire: Wear self-contained breathing apparatus. Flame-retardant 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. Special danger of slipping by leaking/spilling product.

6.1.1. For non-emergency personnel

Protective equipment : Personal protection equipment: see section 8. Wear breathing apparatus if exposed to vapours/ dusts/aerosols.

Emergency procedures : Health hazard! Evacuate area. Health hazard. See section 6 and 4 of the safety data sheet.

6.1.2. For emergency responders

Personal protection equipment : Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/ dusts/aerosols. Personal protection equipment: see section 8.

6.2. Environmental precautions

Collect spillage. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not allow to enter into soil/subsoil. 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 (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

Inform the relevant authorities if the product has entered sewers, waterways, soil or air and might have caused environmental pollution.

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 : Persons with a history of skin sensitisation problems should not be employed in any process in which this product is used.

Advices on safe handling : Provide adequate ventilation.Do not get in eyes, on skin, or on clothing.

Measures to prevent fire : The product is not:Flammable.No special fire protection measures are necessary.

Measures to prevent aerosol and dust generation : Provide adequate ventilation as well as local exhaustion at critical locations.

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.

Further information : No information available.

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. - Keep away from: ignition sources or heat sources.

storage temperature : No information available.

Requirements for storage rooms and vessels : No information available.

Storage class : C3

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

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 (DNEL-value))

No information available.

PNEC (Predicted No Effect Concentration (PNEC-value))

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 Technical measures and the application of suitable work processes have priority over personal protection equipment.

8.2.2. Personal protection equipment

Eye/face protection : Suitable eye protection: Face protection shield. unsuitable eye protection: Eye glasses.

Skin protection

Hand protection : Suitable material: NBR (Nitrile rubber). Thickness of the glove material: 0.35 mm.

Body protection : Only wear fitting, comfortable and clean protective clothing. Suitable protective clothing: Chemical protection clothing. complete head, face and neck protection. Protective sleeves. (acid-resistant and alkali-resistant). Chemical resistant safety shoes.

Respiratory protection : If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Use only respiratory protection equipment with CE-symbol including four digit test number. Suitable respiratory protection apparatus: Filter type: A.

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 - clear
Odour	:	characteristic
Odour threshold	:	No information available.
pH	:	≥1.0 - ≤2.1
Melting point/freezing point	:	No information available.
Initial boiling point and boiling range	:	No information available.
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

Excessive heat.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

No known hazardous decomposition products. - Decomposition products in case of fire: see section 5.

10.7. Additional information

No information available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Following 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		OECD 401
dermal	LD50:	>2000 mg/kg	Rabbit		EPA OPP 81-2
Inhalation (dust/mist)	LC50:	>7.94 mg/L	Rat	4 hour(s)	OECD 403

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/eye irritation : Causes serious eye damage.

Respiratory or skin sensitisation : not applicable

Germ cell mutagenicity : No indications of human germ cell mutagenicity exist.

Carcinogenicity : No indication of human carcinogenicity.

Reproductive toxicity : No indications of human reproductive toxicity exist.

STOT-single exposure : not applicable

STOT-repeated exposure : not applicable

Aspiration hazard : not applicable

Symptoms

Following inhalation : Caustic sensation. May cause:, sore throat, Cough, Dyspnoea, Pulmonary oedema, Symptoms can occur only after several hours., Serious cases may cause:, May cause death

Following skin contact : Caustic sensation. May cause:, redness, pain, burns, blisters

After eye contact : Caustic sensation. May cause:, redness, pain, Impairment of vision

Following ingestion : Caustic sensation. May cause:, sore throat, Abdominal pain, Nausea, May cause asphyxiation due to cramp or swelling of the larynx.

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 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) Danio rerio (zebrafish) - Source: ECHA - Method: OECD 203	EC50: 130 mg/L 48 hour(s) Daphnia magna (Big water flea) - Source: ECHA - Method: OECD 202	EC50: >2.8 mg/L 72 hour(s) Pseudokirchneriella subcapitata - Source: ECHA - Method: OECD 201	

Substance name	Chronic (long-term) fish toxicity	Chronic (long-term) toxicity to aquatic invertebrate	Chronic (long-term) toxicity to aquatic algae and cyanobacteria	Toxicity to other aquatic plants/organisms
L-(+)-LACTIC ACID			NOEC: 1.9 mg/L 72 hour(s) Pseudokirchneriella subcapitata - 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 - Method: OECD 301B

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

The generation of waste should be avoided or minimized wherever possible. Waste should not be disposed of by release to water, drainage, sewer, or the ground. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Other disposal recommendations : not applicable

SECTION 14: Transport information

14.1. UN number

UN 3265

14.2. UN proper shipping name

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.(L-(+)-LACTIC ACID)

14.3. Transport hazard class(es)

8

14.4. Packing group

III

14.5. Environmental hazards

Marine pollutant : No

14.6. Special precautions for user

Hazard identification number (Kemler No.) : 80

EmS (IMDG) : F-A, S-B

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)

H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
EUH071	Corrosive to the respiratory tract.

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