Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

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Indication of changes : §**1.2** - §**2.1** - §**2.2** - §**3** - §**4.2** - §**7.1** - §**11.1**

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

1.1. Product identifier

Safety Data Sheet : 33735
Product code : 8826 520 00010

Product name: : CA6520/00 SENSEO LIQUID DESCALER
Trade name/designation : SENSEO LIQUID DESCALER - PHILIPS

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

Relevant identified uses : Antiscaling 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]

Substance or mixture corrosive to metals	Category 1	H290
Serious eye damage/eye irritation	Category 2	H319
Specific target organ toxicity - single exposure	Category 3	H335

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 : Warning

Hazard statements

H290	May be corrosive to metals.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary statements

P234	Keep only in original packaging.
P261.2	Avoid breathing mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280.3	Wear eye/face protection.
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.
P312.1	Call a POISON CENTER or doctor/physician if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P390	Absorb spillage to prevent material damage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container according to local hazardous waste disposal regulations.

Hazardous ingredients CITRIC ACID

Remarks on labelling Substances or mixtures classified as corrosive to metals but not classified as skin corrosion (category 1) or as serious eye damage (Category 1) which are in the finished state and packaged for consumer use do not require on the label the hazard pictogram GHS05: corrosion.

2.3. Other hazards

Special danger of slipping by leaking/spilling product.
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 3: Composition / information on ingredients

3.2. Mixture

CAS No.	EC No.	REACH No.	Concentration (%)	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL / M-factor / ATE
CITRIC ACID					
77-92-9	201-069-1	01-2119457026-42	≥25.0 - <50.0	GHS07 H319 Eye Irrit. 2 H335 STOT SE 3	

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. When in doubt or if symptoms are observed, get medical advice. Remove affected person from the danger area and lay down. Do not leave affected person unattended. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation : In case of respiratory tract irritation, consult a physician.
Following skin contact : In case of skin irritation, consult a physician.
After eye contact : Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.
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:, blood

Following inhalation : Irritating feeling. May cause:, sore throat, Cough

Following skin contact : Irritating feeling. May cause:, redness, pain, Has degreasing effect on the skin.

After eye contact : Irritating feeling. May cause:, redness, pain

Following ingestion : Irritating feeling. May cause:, sore throat, Abdominal pain

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 : Co-ordinate fire-fighting measures to the fire surroundings.

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 - Carbon dioxide (CO2)

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Special danger of slipping by leaking/spilling product. Use personal protection equipment.

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.Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to 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.Avoid:Inhalation.

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 : Store in a cool dry place. - Store in a well-ventilated place. - Keep/Store only in original container. Keep container tightly closed.

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		(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	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: acid-resistant goggles.

Skin protection

Hand protection : Suitable material: NR (natural rubber, natural latex). CR (polychloroprene, chloroprene rubber). Butyl caoutchouc (butyl rubber). FKM (fluoro rubber). PVC (polyvinyl chloride). Thickness of the glove material: 0.5 mm. NBR (Nitrile rubber). Thickness of the glove material: 0.35 mm. Permeation time (maximum wear duration): 8 hour(s).

Body protection : Only wear fitting, comfortable and clean protective clothing. Suitable protective clothing: lab coat. 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: ABEK-P1

8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

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	:	No information available.
Odour threshold	:	No information available.
pH	:	1.5
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	:	not applicable
Lower explosion limit	:	not applicable
Vapour pressure	:	No information available.
Vapour density	:	No information available.
Relative density	:	1.146 (water=1) (20 °C)
Solubility(ies)		
Water	:	very soluble

Partition coefficient n-octanol/water

CITRIC ACID : -1.57 - Source: GESTIS

Auto-ignition temperature	:	not applicable
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 - Cyanides - alkali - Reducing agent - metals - metal nitrates

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Following ingestion	:	No
Skin contact	:	No
Inhalation	:	No

Substances	Dose / Concentration	Value	Species	Exposure time	Method
CITRIC ACID					
oral	LD50:	5400 mg/kg	Rat		
dermal	LD50:	>2000 mg/kg	Rat		OECD 402

Skin corrosion/irritation : not applicable

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

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 : May cause respiratory irritation.

STOT-repeated exposure : not applicable

Aspiration hazard : not applicable

Symptoms

Following inhalation : Irritating feeling. May cause:, sore throat, Cough

Following skin contact : Irritating feeling. May cause:, redness, pain, Has degreasing effect on the skin.

After eye contact : Irritating feeling. May cause:, redness, pain

Following ingestion : Irritating feeling. May cause:, sore throat, Abdominal pain

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

11.2.2. Other information

No information available.

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	LC50: >100 mg/L 96 hour(s) Fish - Source: ECHA	EC50: 160 mg/L 48 hour(s) Daphnia - Source: GESTIS		

12.2. Persistence and degradability

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

Chemical oyxgen 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 : -1.57 - Source: GESTIS

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

12.8. 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 or ID number

UN 3265

14.2. UN proper shipping name

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.(CITRIC 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. Maritime transport in bulk according to IMO instruments

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

none

Relevant H-phrases (Number and full text)

H319	Causes serious eye irritation.
H335	May cause respiratory 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