

SAFETY DATA SHEET

According to EC 1907/2006 (REACH)

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Last modifications in sections : 2 - 3

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

1.1. Product identifier

SDS : 26453
Product code 12nc : 4219 400 51701
Supplier : ORO-PRODUKTE MARKETING INTERNATIONAL GMBH

Im Hengstfeld 47
D-32657 Lemgo
Germany
TEL:(+49) 5261-28 893-0
FAX:(+49) 5261-28 893-48

Tradename : GAGGIA DECALCIFIER 250ML

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

General description : SCALE REMOVING AGENT
Use : Various
Uses advised against : Data not available.

1.3. Details of the supplier of the safety data sheet

Supplier safety data sheet : Philips Electronics Nederland B.V., Philips Environment & Safety, High Tech Campus 37, 5656 AE Eindhoven, Tel. +31 (0)40 27 41 645
Responsible department : dangerous.goods@philips.com

1.4. Emergency telephone number

Emergency telephone number : +31 (0)497-598315

* SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

(EC) No 1272/2008

Serious eye damage

Category 1

H318

2.2. Label elements

(EC) No 1272/2008

Hazard pictogram(s)



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 component(s) L-(+)-LACTIC ACID

Remarks on labelling none

2.3. Other hazards

If applicable: see section 6.1 and section 7.1.

* SECTION 3: Composition/information on ingredients

Component	CAS-no.	Index No.	Percentage(%)	Label
	EC-no.	Registration no.		
CITRIC ACID MONOHYDRATE	5949-29-1		<25.0	GHS07 H319 Eye irrit. 2
	201-069-1	01-2119457026-42		
L-(+)-LACTIC ACID	79-33-4		<10.0	GHS05 H315 Skin irrit. 2 H318 Eye dam. 1
	201-196-2	01-2119474164-39		
ADDITIVES				
WATER	7732-18-5		≥65.0	
	231-791-2			

For the full text of the H-sentences mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Skin	:	Remove contaminated clothes as soon as possible. Remove residue substance as soon as possible (e.g. rinse with plenty of water). In case of a serious exposure call for a doctor.
Ingestion	:	If victim is conscious let him rinse the mouth with water. Do NOT let him drink. In case of general disorders bring victim into the hospital, otherwise call for a doctor.
Inhalation	:	Bring victim into the fresh air as soon as possible and let rest. In case of severe exposure call for a doctor. In case of breathing problems, loose squeezing clothes and if victim is conscious bring victim in high sitting position. In case of stagnation of breathing give IMMEDIATELY oxygen and transport to hospital as soon as possible.
Eyes	:	Rinse for a long time with plenty of water. In case of eye-sight disturbances bring victim immediately into the hospital, in other cases call for a doctor

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

Skin	local	:	The substance is irritating: redness, pain.
		:	Degreasing: in case of sustained contact a rough, dry skin, eczema.
Ingestion	general	:	Probably no absorption worth mentioning.
	local	:	The substance is irritating: sore throat, abdominal pain.
Inhalation	general	:	The substance may be absorbed after ingestion.
	local	:	The substance is with atomising irritating: sore throat, coughing.
Eyes	general	:	Probably no absorption worth mentioning.
	local	:	The substance is corrosive: redness, pain, poor vision.
Remarks symptoms		:	The substance has an effect on: the blood.

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

For advice on further treatment contact a (national) poison center.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable fire-extinguisher

carbon dioxide, extinguishing powder, water spray, alcohol resistant foam

Unsuitable fire-extinguisher

not traceable

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in fire : carbon monoxide

5.3. Advice for firefighters

In the event of fire, wear protective clothing and use breathing apparatus that is independent of the ambient air.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Precautions

Use protective equipment. See section 8.
Read label before use.

Emergency procedure

Is not to be expected.

6.2. Environmental precautions

Remainder material or uncleaned empty packagings have to be incinerated in a proper installation or dumped on an approved landfill, in accordance with local and national legislation.

6.3. Methods and material for containment and cleaning up

Spillage procedure

Absorb the liquid in appropriate absorbent (e.g. Powersorb, dry sand, diatomite, vermiculite etc.), shovel the mixture into plastic bags and remove to the central depot for hazardous waste.

6.4. Reference to other sections

See section 8 for appropriate personal protection.
See section 13 for additional information on waste treatment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Observe label precautions.
Do not eat, drink or smoke in work areas. Remove contaminated clothing and protective equipment. Wash hands after leaving the work area.

Local exhausting : Depends on processing circumstances, but at least good room ventilation.

Storage code (on behalf of PGS 15) : none

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : See also any precautionary statements in section 2.2.
Store product in a closed, original container, frost free.

7.3. Specific end use(s)

Data not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits :

applicable to: The Netherlands

No TWA has been laid down.

CITRIC ACID MONOHYDRATE

No TWA has been laid down.

L-(+)-LACTIC ACID

No TWA has been laid down.

ADDITIVES

No TWA has been laid down.

WATER

C=Ceiling; S=Skin

Remarks exposure limits :

none

DNEL (Derived No Effect Level)

Data not available.

PNEC (Predicted No Effect Concentration)

Fresh water: 0.44 mg/l

CITRIC ACID MONOHYDRATE

Source : ECHA

Fresh water sediment: 34.6 mg/kg

CITRIC ACID MONOHYDRATE

Source : ECHA

Marine water sediment: 3.46 mg/kg

CITRIC ACID MONOHYDRATE

Source : ECHA

Soil: 33.1 mg/kg
 Sewage Treatment Plant (STP): 1000 mg/l
 Marine water: 0.044 mg/l
 Fresh water: 1.3 mg/l
 Sewage Treatment Plant (STP): 10 mg/l

CITRIC ACID MONOHYDRATE
 CITRIC ACID MONOHYDRATE
 CITRIC ACID MONOHYDRATE
 L-(+)-LACTIC ACID
 L-(+)-LACTIC ACID

Source : ECHA
 Source : ECHA
 Source : ECHA
 Source : Supplier
 Source : Supplier

8.2. Exposure controls

Advised personal protection :

Hands : butyl rubber gloves
 Breakthrough time : For information: consult the supplier of the gloves.
 Eyes : acid goggles
 Inhalation : none (when sufficient exhausting)
 Skin : protective clothing (such as: apron, coverall, boots)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : liquid
 Colour : colourless
 Odour : specific
 Odour threshold (20°C; 1013 mbar) : not traceable
 pH : 2.1
 Melting point/range : not traceable
 Boiling point/range : ≥100 °C (1013 mbar)
 Flash point/range : not traceable
 Vapor rate/range : not traceable
 Flammability (solid, gas) : data not available
 Explosive limits : not traceable
 Vapour pressure : ≤2.3 kPa (20 °C)
 Relative density : ≥1.00 - ≤1.20 (water=1) (20 °C)
 Solubility in water : complete
 Log Po/w : -1.7 CITRIC ACID MONOHYDRATE
 -0.62 L-(+)-LACTIC ACID

Source : Chemicalcards
 Method : OECD 117
 Source : IUCLID

Autoignition temperature : not traceable
 Decomposition temperature : not traceable
 Viscosity : not traceable
 Dust explosions possible in air : not applicable
 Oxidising properties : no

9.2. Other information

Solubility in fat : not traceable
 Electrostatic chagement : no

SECTION 10: Stability and reactivity

10.1. Reactivity

See section 10.2 - 10.6.

10.2. Chemical stability

The substance or mixture is stable under normal conditions. See also section 10.4.

10.3. Possibility of hazardous reactions

Reactions with water : no
 Other hazardous conditions : Data not available.

10.4. Conditions to avoid

Data not available.

10.5. Incompatible materials

Hazardous reactions with : oxidizing substances, metals, reducing substances, metal nitrates, alkaline solutions

10.6. Hazardous decomposition products

Hazardous decomposition products at heating : none

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

LD-50: 3.73 g/kg (ORL-RAT)

L-(+)-LACTIC ACID

Method : OECD 401

Source : IUCLID

Acute dermal toxicity

LD-50: >2 g/kg (SKN-RBT)

L-(+)-LACTIC ACID

Method : OECD 402

Source : IUCLID

Acute inhalation toxicity

There are no data available.

Ames test

negative

CITRIC ACID MONOHYDRATE

Source : Merck

Skin corrosion/irritation

The substance or mixture is not classified for skin corrosion/-irritation.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation

The substance or mixture is not classified for respiratory or skin sensitisation.

Germ cell mutagenicity

The substance or mixture is not classified for germ cell mutagenicity.

Carcinogenicity

The substance or mixture is not classified for carcinogenicity.

Additional information regarding carcinogenicity (NTP, IARC, OSHA)

NTP: no

IARC: no

OSHA: no

CITRIC ACID MONOHYDRATE

NTP: no

IARC: no

OSHA: no

L-(+)-LACTIC ACID

NTP: no

IARC: no

OSHA: no

WATER

Reproductive toxicity

The substance or mixture is not classified for reproductive toxicity.

Specific target organ toxicity-single exposure

The substance or mixture is not classified for specific target organ toxicity-single exposure.

Specific target organ toxicity-repeated exposure

The substance or mixture is not classified for specific target organ toxicity-repeated exposure.

Aspiration hazard

The substance or mixture is not classified for aspiration hazard.

Symptoms

Skin	local	: The substance is irritating: redness, pain.
		: Degreasing: in case of sustained contact a rough, dry skin, eczema.
Ingestion	general	: Probably no absorption worth mentioning.
	local	: The substance is irritating: sore throat, abdominal pain.
Inhalation	general	: The substance may be absorbed after ingestion.
	local	: The substance is with atomising irritating: sore throat, coughing.
Eyes	general	: Probably no absorption worth mentioning.
	local	: The substance is corrosive: redness, pain, poor vision.
Remarks symptoms		: The substance has an effect on: the blood.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

LC-50: 440 mg/l/96H (Fish)

CITRIC ACID MONOHYDRATE

Source : ACROS

EC-50: 120 mg/l/48H (Daphnia)

CITRIC ACID MONOHYDRATE

Source : ACROS

LC-50: 320 mg/l/96H (Fish)

L-(+)-LACTIC ACID

Method : OECD 203

EC-50: 240 mg/l/48H (Daphnia)

L-(+)-LACTIC ACID

Method : OECD 202

NOEC-Fish: 320 mg/l/96H

L-(+)-LACTIC ACID

Source : IUCLID

NOEC-Daphnia: 240 mg/l/48H

L-(+)-LACTIC ACID

Method : OECD 202

Source : IUCLID

12.2. Persistence and degradability

Biological oxygen demand (5) : 0.481 g/g

CITRIC ACID MONOHYDRATE

Source : Merck

0.0005 g/g

L-(+)-LACTIC ACID

Chemical oxygen demand : 0.686 g/g

CITRIC ACID MONOHYDRATE

Source : Merck

0.0009 g/g

L-(+)-LACTIC ACID

Biological(5)/chemical oxygen demand ratio	: 0.701	CITRIC ACID MONOHYDRATE	
	0.5	L-(+)-LACTIC ACID	
Degradability	: readily	CITRIC ACID MONOHYDRATE	Method : OECD 302B
	readily	L-(+)-LACTIC ACID	Source : Merck
			Source : IUCLID

12.3. Bioaccumulative potential

Bioconcentration factor (BCF)	: not traceable		
Log Po/w	: -1.7	CITRIC ACID MONOHYDRATE	Source : Chemicalcards
	-0.62	L-(+)-LACTIC ACID	Method : OECD 117
			Source : IUCLID

12.4. Mobility in soil

Henry Constant	: 1.13E-7 atm m3/mol	L-(+)-LACTIC ACID	Source : Easi View
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12.5. Results of PBT and vPvB assessment

Data not available.

12.6. Other adverse effects

Remarks on ecotoxicity : none

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Remainder material or uncleaned empty packagings have to be incinerated in a proper installation or dumped on an approved landfill, in accordance with local and national legislation.

SECTION 14: Transport information

14.1. UN number

Not subject to Transport-regulation Dangerous Substances

14.2. UN proper shipping name

Not subject to Transport-regulation Dangerous Substances

14.3. Transport hazard class(es)

Not subject to Transport-regulation Dangerous Substances

14.4. Packing group

Not subject to Transport-regulation Dangerous Substances

14.5. Environmental hazards

Marine pollutant : no

14.6. Special precautions for user

Not subject to Transport-regulation Dangerous Substances

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Data not available.

SECTION 15: Regulatory information

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

- Water Hazard Class (WGK) = 1
- According to the supplier, the components of which the product exists are registered in (or exempt from) the Toxic Substances Control Act Inventory (TSCA-USA).

15.2. Chemical safety assessment

- Data not available.

SECTION 16: Other information

Remarks on SDS : Specific requirements Switzerland:
- Section 1:
Importer: Philips AG, Allmendstrasse 140, 8027 Zürich
Telephone: +41 (0)44/488 2211
Customer service: +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:
Waste code: 20 01 29 (European Waste Catalogue (EWC))

Overview relevant H-sentences from all components in section 3

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

Training advice

Provide adequate information, instruction and training for operators.

A key or legend to abbreviations and acronyms used in the safety data sheet

REACH	Registration, Evaluation and Authorisation of CHemicals
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
CAS	Chemical Abstracts Service
TGG = TWA	Time Weighted Average
LEL	Lower Explosive Limit
UEL	Upper Explosive Limit
NTP	National Toxicology Program
KHC	Known Human Carcinogen
RAHC	Reasonably Anticipated Human Carcinogen
IARC	International Agency for Research on Cancer
OSHA	Occupational Safety & Health Administration
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
RID	Règlement concernant le transport international ferroviaire des marchandises dangereuses
UN	United Nations
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
EmS	Emergency Schedule

* Point to alterations with regard to the previous version.

The information provided in this Safety Data Sheet is believed to be correct as of the date issued. Philips Electronics Nederland B.V. makes no warranty as to its contents, nor as to its fitness for any particular purpose or use.