

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 : 8826 700 10010
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 : CA6700/10 DESCALER SINGLE PACK WE

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. EC-no.	Index No. Registration no.	Percentage(%)	Label
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
ADDITIVES				
WATER	7732-18-5 231-791-2		≥65.0	

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.
	general	: Probably no absorption worth mentioning.
Ingestion	local	: The substance is irritating: sore throat, abdominal pain.
	general	: The substance may be absorbed after ingestion.
Inhalation	local	: The substance is with atomising irritating: sore throat, coughing.
	general	: Probably no absorption worth mentioning.
Eyes	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 : none
15)

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.
No TWA has been laid down.
No TWA has been laid down.
No TWA has been laid down.

CITRIC ACID MONOHYDRATE
L-(+)-LACTIC ACID
ADDITIVES
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
Fresh water sediment: 34.6 mg/kg
Marine water sediment: 3.46 mg/kg

CITRIC ACID MONOHYDRATE
CITRIC ACID MONOHYDRATE
CITRIC ACID MONOHYDRATE

Source : ECHA
Source : ECHA
Source : ECHA

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

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)

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

Source : IUCLID

NOEC-Fish: 320 mg/l/96H

L-(+)-LACTIC ACID

Method : OECD 202

NOEC-Daphnia: 240 mg/l/48H

L-(+)-LACTIC ACID

Source : IUCLID

Method : OECD 202

Source : Merck

12.2. Persistence and degradability

Biological oxygen demand (5) : 0.481 g/g
0.0005 g/g

CITRIC ACID MONOHYDRATE

L-(+)-LACTIC ACID

Source : Merck

Chemical oxygen demand : 0.686 g/g
0.0009 g/g

CITRIC ACID MONOHYDRATE

L-(+)-LACTIC ACID

Source : Merck

Biological(5)/chemical oxygen demand ratio : 0.701

CITRIC ACID MONOHYDRATE

Degradability : 0.5
: readily

L-(+)-LACTIC ACID
CITRIC ACID MONOHYDRATE

readily

L-(+)-LACTIC ACID

Method : OECD 302B

Source : Merck

Source : IUCLID

12.3. Bioaccumulative potential

Bioconcentration factor (BCF) : not traceable

Log Po/w : -1.7
-0.62

CITRIC ACID MONOHYDRATE
L-(+)-LACTIC ACID

Source : Chemicalcards

Method : OECD 117

Source : IUCLID

12.4. Mobility in soil

Henry Constant : 1.13E-7 atm m³/mol

L-(+)-LACTIC ACID

Source : Easi View

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.