



SAFETY DATA SHEET

According to EC 1907/2006 (REACH)

Date last verification : 2012-09-19
Revision date : 2012-07-21
Publication date : 2010-11-02

Version number : 5.3

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

MSDS : 26453
Product code 12nc : 8826 700 00010
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

Tradenname : CA6700/00 PHILIPS SAECO DECALCIFIER, SINGLE PACK

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., P.O. Box 218, 5600 MD Eindhoven, Tel. +31 (0)40 2747588
Responsible department : dangerous.goods@philips.com

1.4. Emergency telephone number

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

2. Hazards identification

2.1. Classification of the substance or mixture

GHS: (EC) No 1272/2008

Serious eye damage

Category 1

H318

EC: (EC) No 67/548 or 1999/45

Irritating to eyes.

2.2. Label elements

GHS: (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 GHS-labelling none

EC: (EC) No 67/548 or 1999/45

Hazard pictogram(s)



IRRITANT

R-phrases

36 Irritating to eyes.

S-phrases

2 Keep out of the reach of children.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Hazardous component(s) : not applicable

Remarks on EC-labelling none

2.3. Other hazards

Data not available.

3. Composition/information on ingredients

Component	CAS-no.	Index No.	Percentage(%)	GHS-Label
	EC-no.	Registration no.		EC-Label
CITRIC ACID MONOHYDRATE	5949-29-1		<25.0	GHS07
	201-069-1	01-2119457026-42		H319 Eye irrit. 2 Xi;R: 36
L-(+)-LACTIC ACID	79-33-4		<10.0	GHS05
	201-196-2	01-2119474164-39		H315 Skin irrit. 2 H318 Eye dam. 1 Xi;R: 38 41
ADDITIVES				
WATER	7732-18-5			
	231-791-2			

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

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

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

None

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.

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.

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 : Store product in a closed packaging, NOT in a metal packaging.

7.3. Specific end use(s)

Data not available.

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)

Data not available.

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)

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 : 1.2 (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 : not traceable

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

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 : ChemDat (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.

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

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
		Source	: IUCLID
EC-50: 240 mg/l/48H (Daphnia)	L-(+)-LACTIC ACID	Method	: OECD 202
		Source	: IUCLID
NOEC-Fish: 320 mg/l/96H	L-(+)-LACTIC ACID	Method	: OECD 203
		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	: ChemDat (Merck)
	: 0.0005 g/g	L-(+)-LACTIC ACID		
Chemical oxygen demand	: 0.686 g/g	CITRIC ACID MONOHYDRATE	Source	: ChemDat (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	: ChemDat (Merck)
			Source	: IUCLID

12.3. Bioaccumulative potential

Biochemical factor	: 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 m ³ /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

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.

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 MARPOL73/78 and the IBC Code

Data not available.

15. Regulatory information

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

- Data not available.

15.2. Chemical safety assessment

- Data not available.

16. Other information

Remarks on MSDS : 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.

Overview relevant hazard statements from all components in section 3

Xi IRRITANT

Overview relevant R-sentences from all components in section 3

36 Irritating to eyes.
38 Irritating to skin.
41 Risk of serious damage to eyes.

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
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 Material Safety Data Sheet is correct to the best of the knowledge, information and belief of Philips Electronics Nederland B.V. at the date of its printing.