
1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Name of product SIRO-KLAR

Manufacturer/distributor Sirona Dental Systems GmbH
Fabrikstr. 31 D - 64625 Bensheim, Germany
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Emergency advice Giftinformationszentrale Freiburg
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2. HAZARDS IDENTIFICATION

Classification
C; R34

R-phrases
34 Causes burns.

Special hazards information for humans and environment
Causes burns.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization
Solution of phosphoric acid and non-ionic surfactants in water.

Hazardous ingredients

CAS No	EC No	Name	[%]	Classification
7664-38-2	231-633-2	phosphoric acid	> 30	C R34
		mod. alcohol, ethoxylated	< 5	Xn R22; Xi R36

4. FIRST AID MEASURES

General information

Remove contaminated soaked clothing immediately and dispose it safely.

In case of inhalation

Ensure of fresh air.

In case of skin contact

In case of contact with skin wash off immediately with plenty of water.

In case of eye contact

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

In case of ingestion

Do not induce vomiting.

Call for a doctor immediately.

Rinse out mouth and give plenty of water to drink.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray jet

Special protective equipment for fire-fighters

Wear full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective clothing.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up

Take up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

Flush away residues with water.

Additional Information

Informations for safe handling see chapter 7.

Informations for personal protective equipment see chapter 8.

Informations for disposal see chapter 13.

7. HANDLING AND STORAGE

Advice on safe handling

When diluting, always stir product into water.

Take the usual precautions when handling with chemicals.

Advice on protection against fire and explosion

No special measures necessary.

Requirements for storage rooms and vessels

Provide acid-resistant floor.

Keep only in original container.

Do not use zinc containers.

Do not use aluminium containers.

Do not use light metal drums.

Further information on storage conditions

Keep container tightly closed.

Keep locked up, out of reach of children

Storage temperature between 10°C to 30°C (=50°F to 86°F).

Store in a dry place.

Information on storage stability

In enclosed original container and at storage temperature of 25°C maximum product keeps stable for at least 12 months.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC or 2006/15/EC)

CAS No	Name	Code	[mg/m ³]	[ppm]	Remark
7664-38-2	phosphoric acid	8 hours	1		
		Short-term	2		

Respiratory protection

Not necessary during normal conditions of work.

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Hand protection

Chemical-resistant gloves (EN 374).

Glove material specification (make/type, thickness, permeation time, wetting resistance): natural rubber NR (0,5 mm), polychloroprene CR (0,5 mm), nitrile rubber NBR (0,35 mm), ≥ 8 h.

Eye protection

tightly fitting goggles

Skin protection

light protective clothing

General protective measures

Avoid contact with eyes and skin

Hygiene measures

Do not eat or drink when working.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

liquid

Colour

clear

Odour

characteristic

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value in delivery state	0,6	20	°C		
Density	ca. 1,2 g/cm ³	20	°C		
Solubility in water					soluble

10. STABILITY AND REACTIVITY

Materials to avoid

Reactions with alkalis.

11. TOXICOLOGICAL INFORMATION

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
LD 50 acute oral	1530 mg/kg	rat		Information concerns to main component.

Experiences made from practice

Corrosive effect on skin and mucous membrane.

Causes corrosions.

Additional information

Labelling in compliance with the assessment procedure specified in the EC guidelines 1999/45/EC.

12. ECOLOGICAL INFORMATION

Behaviour in sewage plant

When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely.

The product is an acid. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

General regulation

May contribute to increasing nutrient concentration in stagnant water, so do not discharge into aquatic environment.

Do not allow uncontrolled leakage of product into the environment.

May be eliminated from water by chemical flocculation.

13. DISPOSAL CONSIDERATIONS

Waste code No.

06 01 99

Name of waste

wastes not otherwise specified

Recommendations for the product

Remove in accordance with local official regulations.

There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany, the Recycling and Waste Management Act 8 KrW-/AbfG) stipulates recycling as a requirement.

This means that a distinction must be made between "wastes for recycling" and "wastes for disposal". Particular aspects - in the main concerning delivery - are also governed by the Laender.

Recommendations for packaging

Disposal in accordance with official rules.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Recommended cleansing agent

water

General information

Waste code No. regarding original product.

14. TRANSPORT INFORMATION

Land and inland navigation transport ADR/RID

UN 3264 corrosive liquid, acidic, inorganic, n.o.s. (mixture: phosphoric acid), 8, III, Classification code: C1

Marine transport IMDG

UN 3264 corrosive liquid, acidic, inorganic, n.o.s. (mixture: phosphoric acid), 8, III

Air transport ICAO/IATA-DGR

UN 3264 corrosive liquid, acidic, inorganic, n.o.s. (mixture: phosphoric acid), 8, III

15. REGULATORY INFORMATION

Remarks for classification

The product is classified and labelled in accordance with EC directives/the relevant national laws.

Classification

C Corrosive

R-phrases

34 Causes burns.

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S-phrases

- 1/2 Keep locked up and out of reach of children.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28 After contact with skin, wash immediately with plenty of water.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Hazardous ingredients for labeling
phosphoric acid

National regulations

Water hazard class 1 self-classification

16. OTHER INFORMATION

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Wording of the R-phrases specified in chapter 3 (not the classification of the formulation!)

R 22 Harmful if swallowed.

R 34 Causes burns.

R 36 Irritating to eyes.