

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 01.09.2011

Revision: 01.09.2011

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** Ätzel
- **Article number:**
149485
149486
149487
- **Application of the substance / the preparation** Discharging agent
- **Manufacturer/Supplier:**
ORBIS° Dental Handelsgesellschaft mbH
Schuckertstr. 21
D-48153 Münster
Tel.: +49(0)251 / 3226786
Telefax: +49(0) 251 / 7607201
- **Further information obtainable from:** info@orbis-dental.de
- **Information in case of emergency:**
Informationszentrale gegen Vergiftungen der
Universität Bonn (GIZ-Bonn)
Tel.: +49(0) 228 19240
Telefax: +49(0) 228 28733314

2 Hazards identification

- **Hazard description:**



C Corrosive

- **Information concerning particular hazards for human and environment:**
R 34 Causes burns.
- **GHS label elements**



Danger

- 3.2/1B - Causes severe skin burns and eye damage.
- **Prevention:**
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
- **Response:**
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
Specific treatment (see label).
Wash contaminated clothing before reuse.
- **Storage:**
Store locked up.
- **Disposal:**
Dispose of contents/container in accordance with local/regional/national/international regulations.

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3 Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Description**
7664-38-2 phosphoric acid
- **Identification number(s)**
- **EINECS Number:** 231-633-2
- **Index number:** 015-011-00-6
- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 7664-38-2	phosphoric acid	 C; R 34	25-50%
EINECS: 231-633-2		Danger:  3.2/1B	

4 First aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Only handle and refill product in closed systems.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

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· **Ingredients with limit values that require monitoring at the workplace:**

7664-38-2 phosphoric acid

WEL Short-term value: 2 mg/m³Long-term value: 1 mg/m³

· **Additional information:** The lists valid during the making were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **As protection from splashes gloves made of the following materials are suitable:**

Natural rubber, NR

Nitrile rubber, NBR

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **General Information**

Form: Highly viscous
Colour: Various colours
Odour: Odourless

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 100°C

· **Flash point:** > 100°C

· **Flammability (solid, gaseous):** Product is not flammable.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density at 20°C:** 1.35 g/cm³

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· Solubility in / Miscibility with water:	Soluble.
· pH-value at 20°C:	< 0.5
· Solvent content:	
· Solids content:	6.5 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

- **Information about elimination (persistence and degradability):** Easily biodegradable
- **Behaviour in environmental systems:**
- **Mobility and bioaccumulation potential:** Does not accumulate in organisms
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

06 00 00	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 01 00	wastes from the manufacture, formulation, supply and use (MFSU) of acids
06 01 04	phosphoric and phosphorous acid

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

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· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

· **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 8 Corrosive substances.
- **Danger code (Kemler):** 80
- **UN-Number:** 1805
- **Packaging group:** III
- **Hazard label:** 8
- **Description of goods:** 1805 PHOSPHORIC ACID, SOLUTION

· **Maritime transport IMDG:**



- **IMDG Class:** 8
- **UN Number:** 1805
- **Label:** 8
- **Packaging group:** III
- **EMS Number:** F-A,S-B
- **Marine pollutant:** No
- **Proper shipping name:** PHOSPHORIC ACID, SOLUTION

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 8
- **UN/ID Number:** 1805
- **Label:** 8
- **Packaging group:** III
- **Proper shipping name:** PHOSPHORIC ACID, SOLUTION

· **UN "Model Regulation":** UN1805, PHOSPHORIC ACID, SOLUTION, 8, III

15 Regulatory information

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**



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- **Risk phrases:**

- 34 Causes burns.

- **Safety phrases:**

- 25 Avoid contact with eyes.

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

- 37/39 Wear suitable gloves and eye/face protection.

- 60 This material and its container must be disposed of as hazardous waste.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**

- 34 Causes burns.

- **Recommended restriction of use**

- Produkt nur für den professionellen Gebrauch.

Die in diesem Sicherheitsdatenblatt enthaltenen Angaben basieren nach unserem besten Wissen und Gewissen auf aktuell verfügbaren Informationen über die korrekte Handhabung des Produktes unter normalen Bedingungen. Eine andere, in diesem Datenblatt nicht enthaltene Verwendung dieses Produktes zusammen mit anderen Prozessen/Verfahren obliegt der alleinigen Verantwortung des Anwenders. Dieses Dokument stellt keine explizite oder implizite Garantie bezüglich Produktqualität oder Eignung für einen bestimmten Zweck dar.

- **Abbreviations and acronyms:**

- ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

- RID: Règlement internationale concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

- IMDG: International Maritime Code for Dangerous Goods

- IATA: International Air Transport Association

- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

- ICAO: International Civil Aviation Organization

- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

- GHS: Globally Harmonized System of Classification and Labelling of Chemicals

- EINECS: European Inventory of Existing Commercial Chemical Substances

- CAS: Chemical Abstracts Service (division of the American Chemical Society)

- *** Data compared to the previous version altered.**

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