

# Safety Data Sheet

## according to 1907/2006/EC, Article 31

Date of issue: 25.09.2015  
 Printing date: 21.04.2017

Version: 5

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

**Product Identifier**

Trade name: **Harvard Cement normal setting, liquid**  
**Harvard Cement quick setting, liquid**  
**Harvard Cement OptiCaps<sup>®</sup>, liquid**

**Use of the preparation:** Dental Product

**Details of the supplier of the safety data sheet:**

**Manufacturer/supplier:**

Harvard Dental International GmbH,  
 Margaretenstraße 2-4,  
 15366 Hoppegarten, Germany  
 info@harvard-dental-international.de

**Emergency telephone number:**

+ 49 (0) 30 99 28 978-0 (Qualitätssicherung)

### **2. Hazards identification**

**Classification of the substance or mixture:**

**Classification according to Regulation (EC) No 1272/2008:**

Skin Corr. 1B; H314 Causes severe skin burns and eye damage

**Information concerning particular hazards for human and environment:**

The product has to be labeled due to calculation procedure for the "General Classification guideline for preparations of the EU" in the latest version.

**Label elements**

**Labeling according to Regulation (EC) 1272/2008:**

**Hazard pictograms**



**Signal word**

Danger

**Hazard statements**

H314 Causes severe skin burns and eye damage

**Precautionary statements**

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P280 Wear protective gloves/protective clothing/eye protection/face protection

**Labeling according to EU guidelines:**

Medical devices as defined in Directive 93/42/EEC and which are invasive or used in direct physical contact with the human body; are exempted from the provisions of Regulation (EC) No. 1272/2008 (CLP/GHS) usually if they are in the finished state and intended for the final user.

**Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** not applicable

**vPvB:** not applicable

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#### **3. Composition/Information on Ingredients**

##### **Chemical characterization:**

##### **Description:**

Aqueous solution of phosphoric acid

##### **Hazardous components:**

CAS 7664-38-2    Phosphoric acid                      GHS05, H314

#### **4. First-aid measures**

**General information:** Seek medical advice, if symptoms occur, which can be caused by the product

**after skin contact:** Wash with plenty of water. Immediately remove contaminated clothing.

**after inhalation:** Fresh air. Consult a doctor.

**after eye contact:** Rinse opened eye for several minutes under running water and consult a doctor

**after swallowing:** Make victim drink plenty of water. Avoid vomiting. . Do not attempt to neutralize. Seek medical advice.

#### **5. Fire fighting measures**

##### **Extinguishing media:**

Non combustibile. In case of fire use extinguishing method and media suitable to surrounding fire.

**Special hazards arising from the substance or mixture** Fire may cause evolution of oxides of phosphorus. Suppress vapors with water spray.

**Protective equipment** Wear self-contained respiratory protective equipment

#### **6. Accidental release measures**

##### **Personal precautions, protective equipment and emergency procedures:**

Avoid substance contact.. Do not inhale vapours/aerosols. Ensure adequate ventilation.

##### **Environmental precautions:**

Do not allow to enter drains/surface water/ ground-water.

##### **Methods for cleaning up:**

Absorb with liquid binding and neutralizing material. Forward for disposal. Clean up affected area.

Ensure adequate ventilation.

##### **Reference to other sections:**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment

See Section 13 for disposal information

#### **7. Handling and storage**

##### **Handling:**

This product should only be supplied or handled to dentists or dental technicians or upon their instructions.

**Precautions for safe handling:** Observe normal care for working with chemicals

**Information about fire and explosion protection:** none

**Storage:** Store at a dry place. Store tightly closed. Storage temperature < 25°C.

**Requirements at storerooms and containers:** Store only in the original containers

##### **Further information on storage conditions:**

Store away from food stuffs. Avoid contact with alkalis, heavy-metal-containing components and combustibles

**Specific end uses:** No further relevant information available

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### 8. Exposure controls/personal protection

**Components with limits of values to be supervised at the workplace:**

CAS-No.	name	art	value	unit
[7664-38-2]	Phosphoric acid	TRGS 900 AGW	2	mg/cm <sup>3</sup>

type of exposure: inhalable fraction

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

**Personal protective equipment:**

**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs and beverages. Avoid contact with eyes or skin

**Hand protection**

Protective gloves.

Due to missing tests no recommendation to the glove material can be given for the product.

**Eye protection:** Safety glasses

**Respiratory protection:** Required, when aerosols are generated

### 9. Physical and chemical properties

**Information on basic physical and chemical properties**

**Appearance**

<b>Form:</b>	Liquid		
<b>Color:</b>	colorless		
<b>Odor:</b>	Faint odor		
	Value	Unit	Method

**Safety relevant basic data**

**Melting point/melting range:** n.d.

**Boiling point/boiling range:** > 100 °C

**Flash point:** n.a.

**Autoignition temperature:** n.a. (non combustible)

**Danger of explosion:** none

**Density:** 1.7 g/cm<sup>3</sup>

**Vapor pressure:** Non volatile

**pH:** 1 - 2

**Solubility in/miscibility with:**

**Water:** Very soluble

**Content of solvents:** none

**Organic solvents:** none

### 10. Stability and reactivity

**Thermal decomposition / conditions to be avoided**

**Conditions to avoid:** Bases, metallic oxides most metals and metal alloys: Formation of hydrogen. Incompatible with iron/iron-containing compounds, steel, aluminium and their compounds.

**Hazardous decomposition products:** Fire may cause evolution of oxides of phosphorus.

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### 11. Toxicological information

**Acute toxicity:**

LD<sub>50</sub> (oral) Rat: 1530 mg/kg

**Primary irritation:**

**skin:** Caustic effect on skin and mucous membranes

**eye:** Strong caustic effect. Risk of blindness.

**after inhalation:** Irritation symptoms in the respiratory tract.

**after ingestion:** Strong caustic effect on mouth and throat.

**Sensitization:** not observed

**Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

### 12. Ecological information

**General information:** Anorganic substance. Does not cause biological oxygen deficit.

Harmful effect on aquatic organisms. Harmful effect due to pH shift.

**Water pollution class:** WGK = 1 (slightly polluting substance).

### 13. Disposal considerations

**Product:**

**Recommendation:**

Use proper landfill disposal or incineration in accordance with local, state and federal regulations.

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations

### 14. Transport information

**Land transport ADR/RID and GGVs/GGVE (Germany):**

UN 1805 PHOSPHORSÄURE, LÖSUNG, 8, III

**Sea transport IMDG:**

UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III

EmS: F-A S-B

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

UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III

The transport regulations are cited according to international regulations and in the form applicable in Germany. Possible national deviations in other countries are not considered.

### 15. Regulatory information

**Classification according to EC-guidelines:**

The product is a medical device according to EC-directive 93/42 EEC.

**Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

### 16. Other information:

**Changes compared with the previous version:**

Adaptation according to 1907/2006/EG, Article 31

The above information is based on our present day knowledge and relates solely to the safety requirements of the product. The data do not signify any warranty with regards to products properties. However users of the product should satisfy themselves that the information given is sufficient and correct for their specific circumstances of use.