Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.08.2022

Version number 8 (replaces version 7)

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Start

SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: DeTrey Zinc Liquid 1.2 Relevant identified uses of the substance or mixture and uses advised against · Application of the substance / the mixture Zinc phosphate cement · Uses advised against No further relevant information available. • 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Dentsply DeTrey GmbH De-Trey-Str. 1 D-78467 Konstanz GERMANY Tel.: +49-(0)7531-583-0 Fax: +49-(0)7531-583-104 email: KonstanzDEU.info-sdb@dentsplysirona.com · Further information obtainable from: Research and Development • 1.4 Emergency telephone number: +49-(0)7531-583-0 8:00 - 17:00 (GMT + 1:00) **SECTION 2: Hazards identification** · 2.1 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. Eve Dam. 1 H318 Causes serious eye damage. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. · Hazard pictograms GHS05 · Signal word Danger • Hazard-determining components of labelling: phosphoric acid

- · Hazard statements
- H314 Causes severe skin burns and eye damage.
- · Precautionary statements
- P260 Do not breathe dusts or mists.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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/doctor.*
- P405 Store locked up.
- *P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

• Additional information:

As this product is a medical device in the meaning of Directive 93/42/EEC and regulation (EC) 2017/745 and intended for use by the end consumer and is applied in an invasive manner or body contact, it is exempt from the labelling requirements according to regulation (EC) 1272/2008.

· 2.3 Other hazards

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.

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· vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

Dungerous components.			
CAS: 7664-38-2	phosphoric acid	50 - 100%	
EINECS: 231-633-2	Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318		
	Specific concentration limits: Skin Corr. 1B; H314: $C \ge 25 \%$		
	<i>Skin Irrit. 2; H315: 10 % ≤ C < 25 %</i>		
	<i>Eye Irrit. 2; H319: 10 % ≤ C < 25 %</i>		
• Additional information For the wording of the listed hazard phrases refer to section 16.			

SECTION 4: First aid measures

• 4.1 Description of first aid measures

• General information Immediately remove any clothing soiled by the product.

- After inhalation Supply fresh air; consult doctor in case of complaints.
- 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.
- · Information for doctor No further relevant information available.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- · Suitable extinguishing agents

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents Water with full jet.
- 5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- 5.3 Advice for firefighters
- · Protective equipment: Self-contained respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
 6.2 Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.
 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
 6.4 Reference to other sections
 - See Section 7 for information on safe handling See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Observe normal care for working with chemicals.

• Information about fire - and explosion protection: No special measures required.

· Handling Product is intended for dental use only.

• 7.2 Conditions for safe storage, including any incompatibilities

· Storage

• Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

· Information about storage in one common storage facility: Not required.

• Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

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

CAS: 7664-38-2 phosphoric acid

WEL Short-term value: 2 mg/m³

Long-term value: 1 mg/m³

• **Regulatory information** WEL: EH40/2020

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

· 8.2 Exposure controls

• Appropriate engineering controls No further data; see item 7.

· Individual protection measures, such as 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 necessary if room is well-ventilated.

· Hand protection



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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Natural rubber, NR

Recommended thickness of the material: ≥ 0.6 mm Permeation: Level ≥ 6

· Penetration time of glove material

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

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· Eye/face protection



· Oxidising gases

· Gases under pressure

· Flammable liquids

Tightly sealed goggles.

· Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties • 9.1 Information on basic physical and chemical properties · General Information · Physical state Fluid · Colour: Colourless · Odour: Characteristic · Odour threshold: Not determined. • Melting point/freezing point: undetermined · Boiling point or initial boiling point and boiling range 100 °C · Flammability Not applicable. · Lower and upper explosion limit · Lower: Not determined. · Upper: Not determined. · Flash point: 100 °C · Ignition temperature: *Not applicable* • Decomposition temperature: Not determined. · pH at 20 °C < 2 · Viscosity: · Kinematic viscosity Not determined. · dynamic: Not determined. · Solubility · Water: Fully miscible · Partition coefficient n-octanol/water (log value) Not determined. · Vapour pressure at 20 °C: 2 hPa · Density and/or relative density • Density at 20 °C: 1.56 g/cm³ · Relative density Not determined. · Vapour density Not determined. • 9.2 Other information · Appearance: · Form: Liquid · Important information on protection of health and environment, and on safety. • Auto-ignition temperature: Product is not selfigniting. Product does not present an explosion hazard. · Explosive properties: · Solvent content: 9.0% · Solids content: · Change in condition Not determined. · Evaporation rate · Information with regard to physical hazard classes Void · Explosives · Flammable gases Void · Aerosols Void

Void

Void

Void

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· Flammable solids	Void	
• Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit flamma	ble	
gases in contact with water	Void	
· Oxidising liquids	Void	
• Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions No dangerous reactions known

• 10.4 Conditions to avoid No further relevant information available.

- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity

· LD/LC50 values relevant for classification:

CAS: 7664-38-2 phosphoric acid

Oral LD50 1,530 mg/kg (rat)

Dermal LD50 2,740 mg/kg (rabbit)

· Skin corrosion/irritation Causes severe skin burns and eye damage.

• Serious eye damage/irritation Causes serious eye damage.

• 11.2 Information on other hazards

• Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

• Aquatic toxicity: No further relevant information available.

· 12.2 Persistence and degradability No further relevant information available.

- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment

• **PBT:** Not applicable.

· vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

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- 12.7 Other adverse effects
- Additional ecological information:
- General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

• 13.1 Waste treatment methods

· Recommendation



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- *Recommendation: Disposal must be made according to official regulations.*
- *Recommended cleansing agents: Water, if necessary together with cleansing agents.*

SECTION 14: Transport information · 14.1 UN number or ID number UN1805 · ADR, IMDG, IATA · 14.2 UN proper shipping name · ADR 1805 PHOSPHORIC ACID, SOLUTION · IMDG, IATA PHOSPHORIC ACID, SOLUTION · 14.3 Transport hazard class(es) ·ADR · Class 8 (C2) Corrosive substances. · Label 8 · IMDG, IATA · Class 8 Corrosive substances. · Label 8 · 14.4 Packing group · ADR, IMDG, IATA III · 14.5 Environmental hazards: Not applicable. · 14.6 Special precautions for user Warning: Corrosive substances. • Hazard identification number (Kemler code): 80 · EMS Number: F-A, S-B· Segregation groups Acids · Stowage Category A (Contd. on page 7) GB

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· Segregation Code	SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides	
· 14.7 Maritime transport in bulk according	to IMO	
instruments	Not applicable.	
· Transport/Additional information:		
· ADR		
· Limited quantities (LQ)	5L	
· Excepted quantities ($\widetilde{E}Q$)	Code: El	
	Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 1000 ml	
· Transport category	3	
• Tunnel restriction code	Ε	
· IMDG		
· Limited quantities (LQ)	5L	
\cdot Excepted quantities ($\widetilde{E}Q$)	Code: El	
	Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 1000 ml	
· UN "Model Regulation":	UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III	

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

The attached safety data sheet covers the dangers and measures to be taken when large quantities of material are released, for example due to accidents during transport or storage by the dealer. For quantities of material typically used in clinical practice, information necessary for safe use and storage of the product is given in the DFU.

· Relevant phrases

H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.

· Department issuing SDS: Research & Development

· Contact: HotLine for urgent technical support: +49-7531-583-350

Contact. HolLine for urgent technical support. +49-7551-585-550
 Abbreviations and acronyms:
 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal concentration
 LD50: Lethal concentration

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative Met. Corr.1: Corrosive to metals – Category 1

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Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1 • * **Data compared to the previous version altered.** (Contd. of page 7)

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