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Tel.: +49 (0)800 4372522

#### Safety Data Sheet acc. to OSHA HCS

Printing date 11/15/2022 Reviewed on 11/15/2022

#### 1 Identification

- · Product identifier
  - · Trade name: iBOND Etch 35 Gel

· Application of the substance / the mixture dental etching agent

· Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany)

· Information department:

Tel. +1 (800) 431-1785 Fax: +1 (800) 522-1545 e-mail: customer.servicehkna@kulzer-dental.com

Emergency telephone number:

Emergency CONTACT (24-Hour-Number) ID 105860: (domestic) 1 800 535 5053 or international (001) 352 323 3500

#### 2 Hazard(s) identification

Classification of the substance or mixture

Corrosive to Metals 1 H290 May be corrosive to metals.

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

Eye Damage 1 H318 Causes serious eye damage.

- · Label elements
  - GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS05

- · Signal word Danger
- · Hazard-determining components of labeling:

orthophosphoric acid

Hazard statements

May be corrosive to metals.

Causes severe skin burns and eye damage.

· Precautionary statements

Keep only in original container.

Wash thoroughly after handling.

Wear protective gloves / eye protection.

Wear protective clothing.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

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· Classification system

NFPA ratings for USA (scale 0-4)



· HMIS-Ratings (Scale 0-4)



Health = \*3 Fire = 0

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

#### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
  - Description: -

Descripti	on			
· Dangerous components:				
7664-38-2	orthophosphoric acid Corrosive to Metals 1, H290; Skin Corrosion 1B, H314; Eye Damage 1, H318 Acute Toxicity - Oral 4, H302 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	25-50%		
112926-00-8	amorphous silica	5-10%		

Additional information For the wording of the listed hazard phrases refer to section 16.

#### 4 First-aid measures

- · 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. If skin irritation continues, consult a doctor.

After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

- Information for doctor
  - · Most important symptoms and effects, both acute and delayed No further relevant information available.
  - · Indication of any immediate medical attention and special treatment needed No further relevant information available.



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## 5 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents

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

- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
  - Protective equipment: No special measures required.
- · Additional information -

#### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Do not allow product to reach sewage system or any water course.

Do not allow to penetrate the ground/soil.

Methods and material for containment and cleaning up:

Absorb with liquid binding material (diatomite, universal binders, for small amounts tissues).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Send for recovery or disposal in suitable receptacles.

· Reference to other sections

See Section 13 for disposal information.

See Section 8 for information on personal protection equipment.

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#### 7 Handling and storage

- · Handling
  - Precautions for safe handling

Keep receptacles tightly sealed.

Please observe the additional instructions in the product's instructions for use.

- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
  - · 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: None.
- · Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
  - · Components with limit values that require monitoring at the workplace:

7664-38-2 orthophosphoric acid

PEL 1 mg/m<sup>3</sup>

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## Trade name: iBOND Etch 35 Gel

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REL Short-term value: 3 mg/m³
Long-term value: 1 mg/m³
TLV Short-term value: 3 mg/m³
Long-term value: 1 mg/m³

· Additional information: The lists that were valid during the creation were used as basis.

#### · Exposure controls

#### 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.

Breathing equipment:

Use respiratory protective device against the effects of fumes/dust/aerosol.

Protection of hands:

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

Check protective gloves prior to each use for their proper condition.

recommended

· 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.

· 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.

· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR

Nitrile rubber, NBR

Eye protection: Tightly sealed goggles.

· Body protection: Light weight protective clothing

#### 9 Physical and chemical properties

#### · Information on basic physical and chemical properties

General Information

· Appearance:

Form: Pasty
Color: Blue
Odor: Odorless

· Odor threshold: Not determined.

· pH-value at 20 °C (68 °F): 0.3

· Change in condition

Melting point/Melting range: undetermined
 Boiling point/Boiling range: 100 °C (212 °F)

· Flash point: Not applicable

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· Flammability (solid, gaseous)	Not applicable.
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	1.2 g/cm³ (10.014 lbs/gal) Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water:	Fully miscible
· Partition coefficient (n-octanol/wa	ter): Not determined.
Viscosity: dynamic: kinematic:	Not determined. Not determined.
· Other information	No further relevant information available.

## 10 Stability and reactivity

- Reactivity No further relevant information available.
  Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available. · Hazardous decomposition products: none

## 11 Toxicological information

· Information on toxicological effects · Acute toxicity:

· LD/	· LD/LC50 values that are relevant for classification:						
7664-38-2 orthophosphoric acid							
Oral	LD50	1,530 mg/kg (rat)					
Dermal	LD50	2,740 mg/kg (can)					
Inhalative	LC50/4 h	>850 mg/l (rat)					
112926-00-8 amorphous silica							
Oral	LD50	>5,000 mg/kg (rat)					
Dermal	LD50	>5,000 mg/kg (rabbit)					
Inhalative	LC0/4h	≥5.01 mg/L (rat) (OECD 436)					

- Primary irritant effect:
  - · on the skin: Caustic effect on skin and mucous membranes.
- on the eye: Strong caustic effect.
   Sensitization: No sensitizing effects known.

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#### · Additional toxicological information:

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

#### · IARC (International Agency for Research on Cancer)

7631-86-9 silicon dioxide, chemically prepared

3

NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Reproductive toxicity Based on available data, the classification criteria are not met.

#### 12 Ecological information

- · Toxicity
  - · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
  - · Bioaccumulative potential No further relevant information available.
  - · Mobility in soil No further relevant information available.
- · Additional ecological information:
  - General notes: Avoid transfer into the environment.
- · Results of PBT and vPvB assessment
  - · PBT: Not applicable.
  - vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods
  - · Recommendation

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

Disposal must be made according to official regulations.

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

14 Transport information				
UN-Number DOT, ADR, IMDG, IATA	UN1805			
UN proper shipping name DOT, IMDG, IATA ADR	PHOSPHORIC ACID, SOLUTION 1805 PHOSPHORIC ACID, SOLUTION			

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(Contd. of page 6) · Transport hazard class(es) · DOT · Class 8 Corrosive substances · Label · ADR · Class 8 (C1) Corrosive substances · Label · IMDG, IATA 8 Corrosive substances · Class · Label Packing group
DOT, ADR, IMDG, IATA III· Environmental hazards: · Marine pollutant: · Special precautions for user Warning: Corrosive substances Hazard identification number (Kemler code): 80 EMS Number: F-A,S-B · Segregation groups Acids Stowage Category Α · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: · ADR · Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 Maximum net quantity per outer packaging: 1000 ml ·IMDG · Limited quantities (LQ) · Excepted quantities (ÉQ) Code: E1 Maximum net quantity per inner packaging: 30 Maximum net quantity per outer packaging: (Contd. on page 8)



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1000 ml

UN "Model Regulation": UN1805, Phosphoric acid solution, 8, III

### 15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

SARA Section 313 (specific toxic chemical listings)

7664-38-2 orthophosphoric acid

Proposition 65

Prop 65 - Chemicals known to cause cancer

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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

## 16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

Date of preparation / last revision 11/15/2022

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

DOT: US Department of Transportation

IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

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CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health

OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Corrosive to Metals 1: Corrosive to metals – Category 1
Acute Toxicity - Oral 4: Acute toxicity – Category 4
Skin Corrosion 1B: Skin corrosion/irritation – Category 1B
Eye Damage 1: Serious eye damage/eye irritation – Category 1
\*\* Data compared to the previous version altered.