## **SAFETY DATA SHEETS**

## This SDS packet was issued with item:

074491577

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

074491452 074491478 074491569 074491684 074491692

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

073580008 074491627 074491635 074491643 074491650 074491668 074491676



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### Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2015

Reviewed on 05/12/2015

Tel.: 0800 4372522

### 1 Identification

- · Product identifier
  - · Trade name: iBond Self Etch
- Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
  - · Application of the substance / the mixture Dental bonding material
- · Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:

Heraeus Kulzer GmbH

Grüner Weg 11, D-63450 Hanau

· Information department:

Marc Henn

Tel. +1 (574) 2995444 / Fax: +1 (574) 2912542

e-mail: marc.henn@kulzer-dental.com

• Emergency telephone number:

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

### 2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H336 May cause drowsiness or dizziness.

- Label elements
  - GHS label elements

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

· Hazard pictograms





GHS02 GHS07

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

4-methacryloxyethyltrimellitic acid anhydride

2-hydroxyethyl methacrylate

Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

· Précautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

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

Store locked up.

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### Trade name: iBond Self Etch

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Dispose of contents/container in accordance with local/regional/national/international regulations.

· Classification system

· NFPA ratings for USA (scale 0-4)



Health = 1 Fire = 3 Reactivity = 0

· HMIS-Ratings (Scale 0-4)



Health = 1 Fire = 3 Reactivity = 0

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

### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
  - · Description: Composition based on methacrylates

· Dangerous components:		
	67-64-1	acetone
	70293-55-9	4-methacryloxyethyltrimellitic acid anhydride

25-50%

10-25%

### 4 First-aid measures

- · Description of first aid measures
  - After inhalation Supply fresh air and to be sure call for a doctor.
  - · 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

Rinse out mouth and then drink plenty of water.

If symptoms persist consult 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.

### 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

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

Advice for firefighters

· Protective equipment: Do not inhale explosion gases or combustion gases.

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Trade name: iBond Self Etch

· Additional information -

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### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions: Prevent seepage into sewage system, workpits and cellars.
- · Methods and material for containment and cleaning up:

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

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.

7 Hamallinas and atomos

7 Handling and storage

Precautions for safe handling

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
  - · Storage
    - · Requirements to be met by storerooms and receptacles: Store in a cool location.
    - · Information about storage in one common storage facility: Not required.
    - · Further information about storage conditions:

Keep receptacle tightly sealed.

Protect from exposure to the light.

· 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:

#### 67-64-1 acetone

PEL | 2400 mg/m³, 1000 ppm

REL 590 mg/m³, 250 ppm

TLV Short-term value: 1782 mg/m³, 750 ppm Long-term value: 1188 mg/m³, 500 ppm

BEľ

- · 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.

Do not inhale gases / fumes / aerosols.

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### Trade name: iBond Self Etch

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Avoid contact with the eyes and skin.

· Breathing equipment:

Not necessary with efficient local exhaust. If exposition to vapours is possible, use breathing protective mask (filter A).

Protection of hands:

If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.

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.

· 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.

For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

PVC or PE gloves

· Eye protection: Safety glasses

· Body protection: Light weight protective clothing

9 Physical and chemical prope	erties			
· Information on basic physical and chemical properties · General Information · Appearance:				
· Form: · Color:	Fluid Yellowish			
Odor:	Characteristic			
	Gharacteristic			
<ul> <li>Change in condition</li> <li>Melting point/Melting range:</li> <li>Boiling point/Boiling range:</li> </ul>				
· Flash point:	-19 °C (-2 °F)			
· Ignition temperature:	465 °C (869 °F)			
· Auto igniting:	Product is not selfigniting.			
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.			
· Explosion limits: · Lower: · Upper:	2.6 Vol % 13.0 Vol %			
· <b>Vapor pressure at 20 °C (68 °F):</b> 247 hPa (185 mm Hg)				
· Density at 20 °C (68 °F):	1 g/cm³ (8.345 lbs/gal)			
Solubility in / Miscibility with Water:	Partly miscible			
· Viscosity: · dynamic:	Not determined.			

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Trade name: iBond Self Etch

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· Other information

No further relevant information available.

### 10 Stability and reactivity

- · 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:
    - · Primary irritant effect:
      - · on the skin: No irritant effect.
      - · on the eye: Irritating effect.
    - · Sensitization: Sensitization possible through skin contact.
  - · Additional toxicological information: Irritant
    - · Carcinogenic categories
      - · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

### 12 Ecological information

- **Toxicity**
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
  - · Additional ecological information:
    - · General notes: Do not allow product to reach ground water, water course or sewage system.
- 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.

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Trade name: iBond Self Etch

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· Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number DOT ADR, IMDG, IATA	UN1090 1090	
UN proper shipping name ADR IMDG, IATA	1090 ACETONE, solution ACETONE, solution	
Transport hazard class(es)		
· DOT		
*		
· Class · Label	3 Flammable liquids 3	
· ADR		-
· Class · Label	3 (F1) Flammable liquids 3	
· IMDG, IATA		
· Class · Label	3 Flammable liquids 3	
Packing group DOT, ADR, IMDG, IATA	II	
Environmental hazards: · Marine pollutant:	No	
Special precautions for user  · Danger code (Kemler):  · EMS Number:	Warning: Flammable liquids 33 F-E,S-D	
Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	of Not applicable.	
· Transport/Additional information:	-	
UN "Model Regulation":	UN1090, Acetone, solution, 3, II	

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Trade name: iBond Self Etch

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### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
  - · SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

- TSCA (Toxic Substances Control Act) Medical devices are exempted from TSCA.
- · Cancerogenity categories
  - · TLV (Threshold Limit Value established by ACGIH)

67-64-1 acetone

Α4

GHS label elements

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

· Hazard pictograms



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

4-methacryloxyethyltrimellitic acid anhydride

2-hydroxyethyl methacrylate

Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· 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.

Date of preparation / last revision 05/12/2015 / -

· 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)
IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists
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)

NFPA: National Fire Protection Association (USA)

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Printing date 05/12/2015

Reviewed on 05/12/2015

# Trade name: iBond Self Etch

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HMIS: Hazardous Materials Identification System (USA)
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
\* \* Data compared to the previous version altered.