# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

070441105

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

070441113

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).

070441139

Heraeus Kulzer Mitsui Chemicals Group Page 1/8

### Safety Data Sheet acc. to OSHA HCS

Printing date 06/02/2015

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Reviewed on 06/02/2015

1 Identification         • Product identifier         • Trade name: iBond Universal         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 Kutzer GmbH         Griner Weg 11, D-63450 Hanau         • Tel.: 0800 4372522         • main mation department:         Marc Henn         Tel.: 15(74) 299544 / Fax: +1 (574) 2912542         • e-mail: marc.henn@kutzer.dental.com         Emergency telephone number:         BK/Infortac ID         • Classification of the substance or mixture         Flam. Lq. 2       H235         Fast A. H317       Causes stain instation.         Skin Intl. 2       H317         By causes an allergic skin reaction.         Stor SE 3       H336
<ul> <li>Product identifier         <ul> <li>Trade name: iBond Universal</li> </ul> </li> <li>Relevant identified uses of the substance or mixture and uses advised against             No further relevant information available.         <ul> <li>Application of the substance / the mixture Dential bonding material</li> <li>Details of the supplier of the safety data sheet             'Manufacturer/Supplier:             Heraeus Kutzer GmbH             Grüner Vkeg 11, D-3450 Hanau             Tel.: 0800 4372522             ·Information department:             Marc Henn             Tel. + 1 (574) 2912542             e-mail: marc.henn@Kutzer-chental.com             Emergency telephone number:             Emergency CONTACT (24-Hour-Number)             GBK/Infotrac ID 105860: (domestic) 1 800 535 5053 or international (001) 352 323 3500</li> </ul> </li> <li><b>2 Hazard(S) identification</b> <ul> <li>Classification of the substance or mixture             Fiam. Liq. 2 H225 Highly flammable liquid and vapor.             Skin Int: 2 H315 Causes skin intration.             Eye Int: 2 H315 Causes skin intration.             Eye Int: 2 H315 Causes skin intration.             Sys and y cause an allergic skin reaction.             STOT SE 3 H336 May cause an of aziness.         <ul>             Label elements</ul></li>             eHS1 bable elements</ul></li>             relectory of the scale and labeled according to the Globally Harmonized System (GHS).             'Hazard pictograms <li>· Hazard statements</li>             Hazard pictograms <li>· Hazard statements</li>             Highly flammable liquid and vapor.             Causes skin initation.             Causes skin initation.             Causes skin initation.             Size grasses and labeled according to the Globally Harmonized System (GHS).             'Hazard pictograms             CGuses grasses and labeled according to the Globally Harmonized Sys</ul>
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Printing date 06/02/2015

#### Reviewed on 06/02/2015

### Trade name: iBond Universal

(Contd. of page 1)

25-50%

10-25%

· Classification system NFPA ratings for USA (scale 0-4) Health = 1 Fire = 3Reactivity = 0 · HMIS-Ratings (Scale 0-4) HEALTH 1 Health = 1FIRE 3 Fire = 3REACTIVITY O Reactivity = 0 Results of PBT and vPvB assessment • PBT: Not applicable. · vPvB: Not applicable.

#### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

Description: -

· Dangerous components:

67-64-1 acetone

### 70293-55-9 4-methacryloxyethyltrimellitic acid anhydride

#### 4 First-aid measures

 Description of first aid measures After inhalation Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation. 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. If symptoms persist, 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.

#### • For safety reasons unsuitable extinguishing agents Water with full jet. • 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.

(Contd. on page 3)

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# Trade name: iBond Universal

#### 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: 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 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

· Precautions for safe handling Keep receptacles tightly sealed. 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.

Store in cool, dry conditions in well sealed receptacles.

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/m<sup>3</sup>, 1000 ppm

REL 590 ma/m<sup>3</sup>, 250 ppm

- Short-term value: (1782) NIC-1187 mg/m³, (750) NIC-500 ppm Long-term value: (1188) NIC-475 mg/m³, (500) NIC-200 ppm TLV
  - BEI

Ingredients with biological limit values:

- 67-64-1 acetone
- BEI 50 ma/L urine
- end of shift

Acetone (nonspecific)

(Contd. on page 4)

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## Trade name: iBond Universal

(Contd. of page 3) Additional information: The lists that were valid during the creation were used as basis. · Exposure controls Personal protective equipment General protective and hygienic measures Avoid contact with the eyes. 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 suitable respiratory protective device in case of insufficient ventilation. 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 If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization. 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 gloves made of the following materials are suitable: Butyl rubber, BR Nitrile rubber, NBR Eye protection: Safety glasses · Body protection: Light weight protective clothing 9 Physical and chemical properties · Information on basic physical and chemical properties

Form: Color:	Liquid Clear	
· Odor: · Odour threshold:	Characteristic Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	undetermined undetermined	
Flash point:	-19 °C (-2 °F)	
Flammability (solid, gaseous)	Not applicable.	
Ignition temperature:		
· Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	

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

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## Trade name: iBond Universal

	(Cc	ontd. of page 4
· Danger of explosion:	Product is not explosive. However, for explosive air/vapor mixtures are possible.	rmation of
Explosion limits:		
Lower:	Not determined.	
· Upper:	Not determined.	
· Vapor pressure:	Not determined.	
Density:	Not determined	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
<ul> <li>Solubility in / Miscibility with</li> </ul>		
· Water:	Partly miscible	
· Partition coefficient (n-octanol/w	ater): Not determined.	
· Viscosity:		
· dynamic:	Not determined.	
kinematic:	Not determined.	
Solvent content:		
· Water:	19.0 %	
Solids content:	19.1 %	
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
  - Additional information: -

#### 11 Toxicological information

•	Informatio	on on	toxicol	logical	effects
	A			•	

- · Acute toxicity:
  - · LD/LC50 values that are relevant for classification:
- 67-64-1 acetone
- Oral | LD50 | 5800 mg/kg (rat)
- Dermal LD50 20000 mg/kg (rabbit)
- 41137-60-4 diurethandimethacrylate
- Oral LD50 >5000 mg/kg (rat)
- 70293-55-9 4-methacryloxyethyltrimellitic acid anhydride
  - Oral LD50 > 2000 mg/kg (mouse)
  - Dermal LD50 > 2000 mg/kg (mouse)
    - Primary irritant effect:
      - on the skin: No irritant effect. on the eye: Irritating effect.
    - · Sensitization: Sensitization possible through skin contact.
    - · Additional toxicological information: Irritant

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## Trade name: iBond Universal

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#### · 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.

Ecologic	al informatio	n				2
· Toxicity						
· Aquati	toxicity:		<u></u>			
67-64-1 ac	etone					
EC50/48h	6100 mg/l (daph	nia)				
	5540 mg/l (fish)					
Mobility in Additio Gen Do r Dan	<b>soil</b> No further r nal ecological il eral notes: ot allow product	to reach ground w ater if even small (	n available. vater. water cour	se or sewade sv	stem.	

### · Waste treatment methods

· Recommendation

Disposal must be made according to official regulations.

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

#### · Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

## 14 Transport information

· UN-Number · DOT, ADR, IMDG, IATA	UN1090
· UN proper shipping name · DOT, IMDG, IATA · ADR	ACETONE, mixture 1090 ACETONE, mixture

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Safety Data Sheet acc. to OSHA HCS

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### Trade name: iBond Universal · Transport hazard class(es) (Contd. of page 6) ·DOT · Class 3 Flammable liquids · Label 2 ADR · Class 3 (F1) Flammable liquids · Label · IMDG, IATA · · Class 3 Flammable liquids · Label З Packing group DOT, ADR, IMDG, IATA 11 Environmental hazards: · Marine pollutant: No Special precautions for user Warning: Flammable liquids Danger code (Kemler): EMS Number: F-E,S-D Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: -· UN "Model Regulation": UN1090, Acetone, mixture, 3, II 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 GHS label elements A4 The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 8) USA

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USA

Safety Data Sheet acc. to OSHA HCS

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Trade name: iBond Universal Hazard pictograms (Contd. of page 7) GHS02 GHS07 · Signal word Danger Hazard-determining components of labeling: 4-methacryloxyethyltrimellitic acid anhydride Hazard statements Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye 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 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 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 06/02/2015 / -Abbreviations and acronyms: 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)
 HMIS: Hazardous Materials Identification System (USA) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 \* Data compared to the previous version altered.

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