### **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 070441154

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).

070441121 070441147



Page 1/9

## Safety Data Sheet acc. to OSHA HCS

Printing date 09/11/2017 Reviewed on 09/11/2017 1 Identification · Product identifier Trade name: iBOND Ceramic Primer · Application of the substance / the mixture Auxiliary for manufacture of dental prothesis · Details of the supplier of the safety data sheet Manufacturer/Supplier: Kulzer GmbH Leipziger Straße 2, 63450 Hanau (Germany) Tel.: +49 (0)800 4372522 · 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) 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. Eye Irrit. 2A H319 Causes serious eye irritation. 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: propan-2-ol acetone · Hazard statements Highly flammable liquid and vapor. Causes serious eye irritation. 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. Avoid breathing dust/fume/gas/mist/vapors/spray If on skin (or hair): 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. (Contd. on page 2) USA



Page 2/9

75-90%

## Safety Data Sheet acc. to OSHA HCS

Printing date 09/11/2017

Reviewed on 09/11/2017

### Trade name: iBOND Ceramic Primer

(Contd. of page 1) Classification system • NFPA ratings for USA (scale 0-4) Health = 1Fire = 3Reactivity = 0· HMIS-Ratings (Scale 0-4) HEALTH 1 Health = 1FIRE 3 Fire = 3Reactivity = 0REACTIVITY 0 Results of PBT and vPvB assessment PBT: Not applicable. · vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Mixtures

### · Description: -

#### · Dangerous components:

67-63-0 propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336

67-64-1 acetone Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336 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

- After inhalation Supply fresh air; consult doctor in case of complaints.
- After skin contact Generally the product does not irritate the skin.
- 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.
- 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.

### 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.

(Contd. on page 3)



Page 3/9

(Contd. of page 2)

## Safety Data Sheet acc. to OSHA HCS

Printing date 09/11/2017

Reviewed on 09/11/2017

### Trade name: iBOND Ceramic Primer

- · 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. Dilute with plenty of water.
- Methods and material for containment and cleaning up: Absorb with liquid binding material (diatomite, universal binders, for small amounts tissues). Ensure adequate ventilation.
   Reference to other sections
- No dangerous substances are released. See Section 8 for information on personal protection equipment.

### 7 Handling and storage

· Handling

- · 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:
- 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:

#### 67-63-0 propan-2-ol

PEL () 980 mg/m<sup>3</sup>, 400 ppm

- REL () Short-term value: 1225 mg/m<sup>3</sup>, 500 ppm
  - Long-term value: 980 mg/m<sup>3</sup>, 400 ppm
- TLV () Short-term value: 984 mg/m<sup>3</sup>, 400 ppm
  - Long-term value: 492 mg/m³, 200 ppm

### 67-64-1 acetone

PEL () 2400 mg/m<sup>3</sup>, 1000 ppm

(Contd. on page 4)



Page 4/9

## Safety Data Sheet acc. to OSHA HCS

Printing date 09/11/2017

Reviewed on 09/11/2017

### Trade name: iBOND Ceramic Primer

	(Contd. of page 3)
REL () 590 mg/m <sup>3</sup> , 250 ppm	
TLV () Short-term value: 178	2 mg/m³, 750 ppm
Long-term value: 118	8 mg/m³, 500 ppm
BEI	
	<b>n:</b> The lists that were valid during the creation were used as basis.
· Exposure controls	in mont
Personal protective equi	prinent Id hygiopio moosuros
Avoid contact with the	
	uffs, beverages and feed.
Immediately remove al	I soiled and contaminated clothing
	eaks and at the end of work.
Avoid contact with the	
<ul> <li>Breathing equipment.</li> </ul>	
Not necessary with eff	icient local exhaust. If exposition to vapours is possible, use breathing
protective mask (filter A	A).
Protection of hands:	
	s to be impermeable and resistant to the product/ the substance/ the
preparation.	
	material on consideration of the penetration times, rates of diffusion and
the degradation	a prior to apphy up for their proper condition
recommended	s prior to each use for their proper condition.
· Material of gloves	
The selection of th	e suitable gloves does not only depend on the material, but also on
further marks of qua	ality and varies from manufacturer to manufacturer. As the product is a
	veral substances, the resistance of the glove material can not be
calculated in advan	ce and has therefore to be checked prior to the application.
<ul> <li>Penetration time o</li> </ul>	f glove material
The exact break th	rough time has to be found out by the manufacturer of the protective
gloves and has to b	
For the permane	nt contact of a maximum of 15 minutes gloves made of the
following materials	s are suitable:
Butyl rubber, BR	
Nitrile rubber, NBR	
Protective goggles are	recommended
Tightly sealed goggles.	
· Body protection: Ligh	t weight protective clothing
) Physical and chamical	proportios
Physical and chemical	properties
· Information on basic physic	cal and chemical properties
· General Information	
· Appearance:	
Form:	Fluid
· Color:	Colorless
· Odor:	Alcohol-like
· Odor threshold:	Not determined.
· pH-value:	Not determined.

(Contd. on page 5)



Page 5/9

## Safety Data Sheet acc. to OSHA HCS

Printing date 09/11/2017

Reviewed on 09/11/2017

### Trade name: iBOND Ceramic Primer

	(Contd. of page 4
<ul> <li>Change in condition</li> <li>Melting point/Melting range:</li> <li>Boiling point/Boiling range:</li> </ul>	undetermined 55 °C (131 °F)
· Flash point:	5 °C (41 °F)
· Flammability (solid, gaseous)	Not applicable.
· Ignition temperature:	>400 °C (>752 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation o explosive air/vapor mixtures are possible.
• Explosion limits: • Lower: • Upper:	2.0 Vol % 12.0 Vol %
<ul> <li>Vapor pressure at 20 °C (68 °F):</li> </ul>	48 hPa (36 mm Hg)
<ul> <li>Density at 20 °C (68 °F):</li> <li>Relative density</li> <li>Vapor density</li> <li>Evaporation rate</li> </ul>	0.800 g/cm³ (6.676 lbs/gal) Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water:	Fully miscible
· Partition coefficient (n-octanol/wa	ter): Not determined.
<ul> <li>Viscosity:</li> <li>dynamic:</li> <li>kinematic:</li> </ul>	Not determined. Not determined.
Solvent content: Water: Other information	4.0 % 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	/LC50 va	lues that are relevant for classification:
67-63-0 p	oropan-2-	ol
Oral	LD50	4570 mg/kg (rat)

Dermal	LD50	13400 mg/kg (rab)

(Contd. on page 6) USA



Page 6/9

## Safety Data Sheet acc. to OSHA HCS

Printing date 09/11/2017

Reviewed on 09/11/2017

### Trade name: iBOND Ceramic Primer

Inhalative	1050/4	h 30 mg/l (rat) (Contd. of pa	ge
67-64-1 a			
Oral	LD50	5800 mg/kg (rat)	
Dermal	LD50	20000 mg/kg (rabbit)	
· Pri	mary irri on the s	tant effect: kin: No irritant effect.	
• Se • Addit The p	nsitizatio ional tox roduct sh	<b>ye:</b> Irritating effect. <b>on:</b> No sensitizing effects known. <b>icological information:</b> ows the following dangers according to the calculation method of the Genera cuidelines for Preparations as issued in the latest version:	l E
Irritan	t	ic categories	
		ternational Agency for Research on Cancer)	
	0 propan		3
		methacrylate	3
		nitrilotriethanol	3
		en chloride	3
		ert-butyl-p-cresol	3
		tional Toxicology Program)	
		ients is listed.	
	-	a (Occupational Safety & Health Administration)	
		ients is listed.	
	ne ingreu		
12 Ecolog	ical info	ormation	
<ul> <li>Toxicity</li> </ul>			
	tic toxicit		
67-63-0 p			
		mg/l (algae)	
		mg/l (daphnia)	
LC50/96ł		g/l (tish)	
67-64-1 a			
		g/l (daphnia)	
LC50/96ł			
· Persister	nce and o	degradability No further relevant information available.	
		onmental systems: ive potential No further relevant information available.	
		No further relevant information available.	
· Addition	al ecolog	ical information:	
	ral notes		
	et allow ui ge system	ndiluted product or large quantities of it to reach ground water, water cours	se (
		nd vPvB assessment	
	Not applie		

• vPvB: Not applicable.

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(Contd. on page 7)



Page 7/9

(Contd. of page 6)

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

Printing date 09/11/2017

Reviewed on 09/11/2017

### Trade name: iBOND Ceramic Primer

· Other adverse effects No further relevant information available.

### 13 Disposal considerations

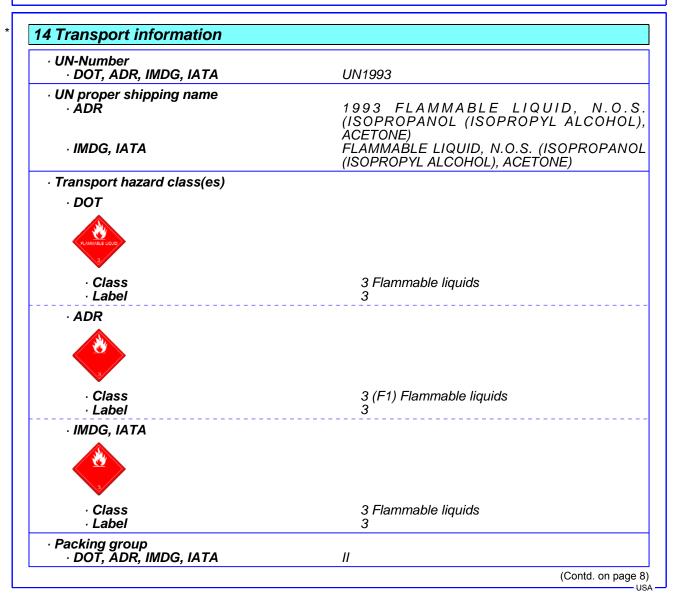
· Waste treatment methods

Recommendation

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

· Uncleaned packagings:

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





Page 8/9

## Safety Data Sheet acc. to OSHA HCS

Printing date 09/11/2017

Reviewed on 09/11/2017

### Trade name: iBOND Ceramic Primer

	(Contd. of page 7
<ul> <li>Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No
<ul> <li>Special precautions for user</li> <li>Danger code (Kemler):</li> <li>EMS Number:</li> </ul>	Warning: Flammable liquids 33 F-E, <u>S-E</u>
<ul> <li>Transport in bulk according to Annex MARPOL73/78 and the IBC Code</li> </ul>	<i>II of</i> Not applicable.
· Transport/Additional information:	-
· UN "Model Regulation":	UN1993, Flammable liquids, n.o.s., special provisior 640D (Isopropanol (Isopropyl alcohol), Acetone), 3, II

### 15 Regulatory information

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

7647-01-0 hydrogen chloride

### Cancerogenity categories

	TLV (Threshold Limit Value established by ACGIH)	
67-64-1	acetone	A4
80-62-6	methyl methacrylate	A4
128-37-0	2,6-di-tert-butyl-p-cresol	A4

#### · 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:** propan-2-ol acetone

### · Hazard statements

Highly flammable liquid and vapor. Causes serious eye irritation.

May cause drowsiness or dizziness.

Precautionary statements
 Koop away from boot/oper/so/open flomes/

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Use explosion-proof electrical/ventilating/lighting/equipment.

- Avoid breathing dust/fume/gas/mist/vapors/spray
- If on skin (or hair): 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.

(Contd. on page 9)



Page 9/9

## Safety Data Sheet acc. to OSHA HCS

Printing date 09/11/2017

Reviewed on 09/11/2017

### Trade name: iBOND Ceramic Primer

(Contd. of page 8) • Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

	Other information
1	These data are based on our present knowledge. However, they shall not constitute a guarantee is
ć	any specific product features and shall not establish a legally valid contractual relationship.
	· Relevant phrases
	H225 Highly flammable liquid and vapor.
	H319 Causes serious eye irritation.
	H336 May cause drowsiness or dizziness.
	Date of preparation / last revision 09/11/2017 / 2
	· Abbreviations and acronyms:
	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning a
	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)
	LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent
	PBT: Persistent, Bioaccumulative and Toxic
	VPVB: very Persistent and very Bioaccumulative
	OSHA: Occupational Safety & Health
	TLV: Threshold Limit Value
	PEL: Permissible Exposure Limit
	REL: Recommended Exposure Limit
	Flam. Liq. 2: Flammable liquids – Category 2 Fuo Irrit. 24: Serious ave demogra/ove irritation – Category 24
	Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
	$\cdot$ * Data compared to the previous version altered.