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 1/8

Safety Data Sheet acc. to OSHA HCS

Printing date 06/22/2015

Reviewed on 05/27/2015

Tel.: 0800 4372522

1 Identification

- · Product identifier
 - · Trade name: iBOND Ceramic Primer
- Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 - Application of the substance / the mixture Auxiliary for manufacture of dental prothesis
- · 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.

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 statements

Highly flammable liquid and vapor.

Causes serious eye imitation.

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.

· Classification system

NFPA ratings for USA (scale 0-4)



Health = 1 Fire = 3Reactivity = 0

(Contd. on page 2)



Page 2/8

Safety Data Sheet acc. to OSHA HCS

Printing date 06/22/2015

Reviewed on 05/27/2015

Trade name: iBOND Ceramic Primer

· HMIS-Ratings (Scale 0-4)

(Contd. of page 1)

HEALTH 1
FIRE 3
REACTIVITY 0

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: -

Dangerous components:	
67-63-0 propan-2-ol	75-90%
67-64-1 acetone	5-10%

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.
 - Do not induce vomiting; immediately call for medical help.
- · 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: 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.

(Contd. on page 3)

Page 3/8

Safety Data Sheet acc. to OSHA HCS

Printing date 06/22/2015

Reviewed on 05/27/2015

Trade name: iBOND Ceramic Primer

· Methods and material for containment and cleaning up:

(Contd. of page 2)

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

- 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 re-	guire monitoring at	the workplace:

67-63-0 propan-2-ol

- PEL () 980 mg/m³, 400 ppm
- REL () Short-term value: 1225 mg/m³, 500 ppm

Long-term value: 980 mg/m³, 400 ppm

Short-term value: 984 mg/m³, 400 ppm Long-term value: 492 mg/m³, 200 ppm

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

· 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.

(Contd. on page 4)

Page 4/8

Safety Data Sheet acc. to OSHA HCS

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Reviewed on 05/27/2015

Trade name: iBOND Ceramic Primer

· Protection of hands:

(Contd. of page 3)

The glove material has to be impermeable and resistant to the product/ the substance/ the prepăration.

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:

Butyl rubber, BR

Fluorocarbon rubber (Viton) Nitrile rubber, NBR Chloroprene rubber, CR PVC or PE gloves

Neoprene gloves

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

Natural rubber, NR

Eye protection: Protective goggles are recommended.

Body protection: Light weight protective clothing

erties
l chemical properties
Fluid
Colorless
Alcohol-like
undetermined
55 °C (131 °F)
5 °C (41 °F)
>400 °C (>752 °F)
Product is not selfigniting.
Product is not explosive. However, formation of explosive air vapor mixtures are possible.
2.0 Vol %
12.0 Vol %
: 48 hPa (36 mm Hg)
0.800 g/cm³ (6.676 lbs/gal)
Fully miscible

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Page 5/8

Safety Data Sheet acc. to OSHA HCS

Printing date 06/22/2015

Reviewed on 05/27/2015

Trade name: iBOND Ceramic Primer

(Contd. of page 4)

· Solvent content:

Water:

· VOC USA

2924.5 g/l / 24.41 lb/gl

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:

·LD	/LC50 valu	ues that are relevant for classification:	
67-63-0 p	propan-2-o	0/	
Oral	LD50	4570 mg/kg (rat)	
Dermal	LD50	13400 mg/kg (rab)	
Inhalative	LC50/4 h	30 mg/l (rat)	
67-64-1 a	cetone		
Oral	LD50	5800 mg/kg (rat)	
Dermal	LD50	20000 mg/kg (rabbit)	

- · Primary irritant effect:
- · on the skin: No irritant effect. · on the eye: Irritating effect. · Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

· Carcinogenic categories

· 1/	ARC (International Agency for Research on Cancer)	
67-63-0	propan-2-ol	3
	methyl methacrylate	3
	2,2',2"-nitrilotriethanol	3
7647-01-0	hydrogen chloride	3
	Butyl-hydroxy-toluol	3
· N	TP (National Toxicology Program)	
None of the	e ingredients is listed.	
· 0	SHA-Ca (Occupational Safety & Health Administration)	
None of the	e ingredients is listed.	

(Contd. on page 6)

Heraeus Kulzer

Page 6/8

Safety Data Sheet acc. to OSHA HCS

Printing date 06/22/2015

Reviewed on 05/27/2015

Trade name: iBOND Ceramic Primer

(Contd. of page 5)

12 Ecological information

· Toxicity

· Aquation	c toxicity:
67-63-0 pr	opan-2-ol
EC50/48h	13299 mg/l (daphnia)
EC50/72h	13299 mg/l (daphnia) >1000 mg/l (algae)
LC50/96h	1400 mg/l (fish)

67-64-1 acetone

EC50/48h 6100 mg/l (daphnia) LC50/96h | 5540 mg/l (fish)

- 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 undiluted product or large quantities of it 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.

- · 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	UN1993

UN proper shipping name 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL),

ACETONE) · IMDG, IATA FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL), ACETONE)

(Contd. on page 7)

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Mitsus Chemicals Grand

Page 7/8

Safety Data Sheet acc. to OSHA HCS

Printing date 06/22/2015

Reviewed on 05/27/2015

Trade name: iBOND Ceramic Primer

80-62-6 methyl methacrylate

	(Contd. of page
· Transport hazard class(es)	
DOT	
Class	3 Flammable liquids
Label	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	Warning: Flammable liquids
Danger code (Kemler): EMS Number:	33 <i>F-E</i> , <u>S-E</u>
· Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	1,000
· Transport/Additional information:	-
· UN "Model Regulation":	UN1993, Flammable liquids, n.o.s., speci- provision 640D (Isopropanol (Isopropyl alcohol Acetone), 3, II

(Contd. on page 8)

A4

Page 8/8

Safety Data Sheet

acc. to OSHA HCS

Reviewed on 05/27/2015

Printing date 06/22/2015

Trade name: iBOND Ceramic Primer

(Contd. of page 7)

A4

Butyl-hydroxy-toluol

GHS label elements

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







GHS02 GHS07

· Signal word Danger

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.

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 06/22/2015 /

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement conceming 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) CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
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.