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Safety Data Sheet acc. to OSHA HCS

Printing date 07/02/2024

Reviewed on 07/02/2024

Tel.: +49 (0)800 4372522

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)

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

H225 Highly flammable liquid and vapor. Flammable Liquids 2 Eye Irritation 2A H319 Causes serious eye irritation. Sensitization - Skin 1 H317 May cause an allergic skin reaction. Specific Target Organ Toxicity - Single Exposure 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

methyl methacrylate

Hazard statements

Highly flammable liquid and vapor.

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.

Avoid breathing mist/vapours/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

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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.

If eye irritation persists: Get medical advice/attention.

Classification system

· NFPA ratings for USA (scale 0-4)



Health = 2Fire = 3Reactivity = 0

· HMIS-Ratings (Scale 0-4)



Health = 2Fire = 3

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

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
 - Description: -

· Dang	· Dangerous components:		
67-63-0	propan-2-ol	75-90%	
	Flammable Liquids 2, H225 Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336		
67-64-1	acetone	≥5-<10%	
	Flammable Liquids 2, H225 Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336		
80-62-6	methyl methacrylate	≥0.1-<1%	
	Flammable Liquids 2, H225 Skin Irritation 2, H315; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335		

· 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.

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- · 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.

- 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.

· Protective Action Criteria for Chemicals

PAC-1:	
67-63-0 propan-2-ol	400 ppm
67-64-1 acetone	200 ppm
2530-85-0 3-trimethoxysilylpropyl methacrylate	71 mg/m³
80-62-6 methyl methacrylate	17 ppm
109-16-0 triethylen glycol dimethacrylate	33 mg/m³
7647-01-0 hydrogen chloride	1.8 ppm
102-71-6 Triethanolamine	15 mg/m³
79-41-4 methacrylic acid	6.7 ppm
· PAC-2:	
67-63-0 propan-2-ol	2000* ppm
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67-64-1	-1 acetone (Contd. of p		
2530-85-0	35-0 3-trimethoxysilylpropyl methacrylate 780 mg		
80-62-6	methyl methacrylate	120 ppm	
109-16-0	triethylen glycol dimethacrylate	360 mg/m ³	
7647-01-0	hydrogen chloride	22 ppm	
102-71-6	Triethanolamine	240 mg/m ³	
79-41-4 methacrylic acid 61 /		61 ppm	
· PAC-3.			
67-63-0	propan-2-ol	12000** ppm	
67-64-1	acetone	5700* ppm	
2530-85-0	3-trimethoxysilylpropyl methacrylate	4,700 mg/m ³	
80-62-6	methyl methacrylate	570 ppm	
109-16-0	triethylen glycol dimethacrylate	2,100 mg/m ³	
7647-01-0	hydrogen chloride	100 ppm	
102-71-6	Triethanolamine	1,500 mg/m³	
	methacrylic acid	220 ppm	

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 section 7.
- · Control parameters
 - · Components with limit values that require monitoring at the workplace:

67-63-0 propan-2-ol

PEL Long-term value: 980 mg/m³, 400 ppm

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REL Short-term value: 1225 mg/m³, 500 ppm

Long-term value: 980 mg/m³, 400 ppm

TLV Short-term value: 400 ppm Long-term value: 200 ppm

BEI, A4

67-64-1 acetone

PEL Long-term value: 2400 mg/m³, 1000 ppm REL Long-term value: 590 mg/m³, 250 ppm

TLV Short-term value: 500 ppm Long-term value: 250 ppm

A4, BEI

· Ingredients with biological limit values:

67-63-0 propan-2-ol

BEI 40 ma/L

Medium: urine

Time: end of shift at end of workweek

Parameter: Acetone (background, nonspecific)

67-64-1 acetone

BEI 25 mg/L

Medium: urine Time: end of shift

Parameter: Acetone (nonspecific)

· 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:

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

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.

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· 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:

Protective goggles are recommended.

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: Fluid Color: Colorless · Odor: Alcohol-like · Odor threshold: Not determined. · pH-value: Not determined. · Change in condition Melting point/Melting range: undetermined Boiling point/Boiling range: 55 °C (131 °F) 5 °C (41 °F) · Flash point: · Flammability (solid, gaseous) Not applicable. >400 °C (>752 °F) · Auto igniting: · Decomposition temperature: Not determined. · Ignition temperature: Product is not selfigniting. · Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible. Explosion limits: Lower: 2.0 Vol % 12.0 Vol % · Upper: 48 hPa (36 mm Hg) · Vapor pressure at 20 °C (68 °F): Density at 20 °C (68 °F): 0.800 g/cm3 (6.676 lbs/gal) Relative density Not determined. Vapor density Not determined. · Evaporation rate Not determined. · Solubility in / Miscibility with Water: Fully miscible (Contd. on page 7)

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 Partition coefficient (n-octanol/water): Not determined.
 Viscosity:

 dynamic:
 kinematic:
 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:			
67-63-0 pi	67-63-0 propan-2-ol			
Oral	LD50	5,840 mg/kg (rat) (OECD 401)		
Dermal	LD50	>12,800 mg/kg (rabbit) (OECD 402)		
Inhalative	LC0	≥10,000 ppm /6h (rat) (OECD 403)		
67-64-1 ad	67-64-1 acetone			
Oral	LD50	5,800 mg/kg (rat)		
Dermal	LD50	>15,800 mg/kg (rabbit)		
Inhalative	LC50/4 h	76 mg/l (rat)		

- · 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:

· Carcinogenic categories

	· IARC (International Agency for Research on Cancer)	
67-63-0	0 propan-2-ol	3
80-62-6	6 methyl methacrylate	3
	· NTP (National Toxicology Program)	
None o	of the ingredients is listed.	
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· 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:

67-63-0 propan-2-ol

LC50/96h | 9,640 mg/l (fish) (OECD 203)

LC50/24h >10.000 mg/L (daphnia) (OECD 202)

67-64-1 acetone

EC50/48h 8,800 mg/l (daphnia)

LC50/96h 6,210 mg/l (fish) (OECD 203)

Persistence and degradability

67-63-0 propan-2-ol

biodegradability 53 % /5d (not defined) (EU C.5)

67-64-1 acetone

biodegradability 90.9 % /28d (not defined) (OECD 301D)

- · Behavior in environmental systems:
 - · 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.

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UN-Number · DOT, ADR, IMDG, IATA	UN1993
· UN proper shipping name · DOT · ADR · IMDG, IATA	Flammable liquids, n.o.s. (Isopropanol, Acetone) 1993 FLAMMABLE LIQUID, N.O.S., spec provision 640D (ISOPROPANOL (ISOPROP ALCOHOL), ACETONE) FLAMMABLE LIQUID, N.O.S. (ISOPROPANO
	(ISOPROPYL ALCOHOL), ACETONE)
Transport hazard class(es)	
·DOT	
P. MUNICAT L'ELIE	
· Class · Label	3 Flammable liquids 3
· ADR	
3	
· 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 · Hazard identification number (K · EMS Number: · Stowage Category	<i>Warning: Flammable liquids</i> (emler code): 33 F-E, <u>S-E</u> B
- Cionago Catogory	(Contd. on page

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· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	-
· ADR · Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S., SPECIAL PROVISION 640D (ISOPROPANOL (ISOPROPYL ALCOHOL), ACETONE), 3, II

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)

7647-01-0 hydrogen chloride

· SARA Section 313 (specific toxic chemical listings)

67-63-0 propan-2-ol

80-62-6 methyl methacrylate

7647-01-0 hydrogen chloride

· Hazardous Air Pollutants

80-62-6 methyl methacrylate

7647-01-0 hydrogen chloride

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.

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(Contd. of page 10) · Cancerogenity categories EPA (Environmental Protection Agency) 67-64-1 acetone 80-62-6 methyl methacrylate E. NL · TLV (Threshold Limit Value) 67-63-0 propan-2-ol Α4 67-64-1 acetone Α4 A4 80-62-6 methyl methacrylate · 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

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

Date of preparation / last revision 07/02/2024

· 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

ATA: International Air Transportation

IATA: International Air Transport Association

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

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flammable Liquids 2: Flammable liquids – Category 2 Skin Irritation 2: Skin corrosion/irritation – Category 2

Skin Initiation 2A: Serious eye damage/eye irritation – Category 2A
Sensitization - Skin 1: Skin sensitisation – Category 1
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

* Data compared to the previous version altered.