SAFETY DATA SHEETS

This SDS packet was issued with item:

074491452

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

073580008 074491478 074491569 074491577 074491635 074491643 074491650 074491676 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).

074491627 074491668



Tel.: 0800 4372522

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Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2015 Reviewed on 05/12/2015

1 Identification

- Product identifier
 - · Trade name: iBOND Total 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

H226 Flammable liquid and vapour.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 1A H350 May cause cancer.

Eve Dam. 1 H318 Causes serious eye damage.

Skin Irrit. 2 H315 Causes skin irritation.

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

· Label elements

· GHS label elements

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

· Hazard pictograms







GHS02 GHS05

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

ethanol

2-hydroxyethyl methacrylate glutaral

4-methacryloxyethyltrimellitic acid anhydride

· Hazard statements

Flammable liquid and vapour.

Causes skin İrritation.

Causes serious eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause cancer.

· Precautionary statements

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

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Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2015 Reviewed on 05/12/2015

Trade name: iBOND Total Etch

(Contd. of page 1)

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 = 2 Fire = 3 Reactivity = 0

· HMIS-Ratings (Scale 0-4)



Health = *2 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:		
64-17-5		25-50%
868-77-9	2-hydroxyethyl methacrylate	10-25%
	Poly(methacrylic-oligo-acrylic acid)	0-5%
	4-methacryloxyethyltrimellitic acid anhydride	0-5%
111-30-8	glutaral	0-5%

4 First-aid measures

- · Description of first aid measures
 - · After inhalation Supply fresh air; consult doctor in case of complaints.
 - · 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 Immediately call a 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.

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- USA



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Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2015 Reviewed on 05/12/2015

Trade name: iBOND Total Etch

(Contd. of page 2)

· 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.

- · Advice for firefighters
 - · Protective equipment: Mount respiratory protective device.
 - · Additional information -

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Do not allow to penetrate the ground/soil.

No special measures required.

Methods and material for containment and cleaning up:

Absorb with liquid binding material (diatomite, universal binders, for small amounts tissues). 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 Handling and storage

· Precautions for safe handling

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· 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: No special requirements.
 - · Information about storage in one common storage facility: Not required.
 - Further information about storage conditions: Keep cool, if possible (not above 25 °C).
- · 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:

64-17-5 ethanol

PEL 1900 mg/m³, 1000 ppm

REL 1900 mg/m³, 1000 ppm

TLV 1880 mg/m³, 1000 ppm

111-30-8 glutaral

REL Short-term value: C 0.8 mg/m³, C 0.2 ppm

TLV Short-term value: C 0.2 mg/m³, C 0.05 ppm

SEN

(Contd. on page 4)

USA -



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Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2015 Reviewed on 05/12/2015

Trade name: iBOND Total Etch

	(Contd. of page 3)
	26-00-8 amorphous silica
	Short-term value: 80 mg/m³
	as % SiO2
REL	6 mg/m³
TLV	10 mg/m³
	(e)

· 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.

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.

Solvent resistant gloves

· 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 of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR

- Eye protection: Tightly sealed goggles.
- · Body protection: Light weight protective clothing

9 Physical and chemical properties

Internation on the standard and and	-
· Information on basic physical and · General Information	cnemical properties
· Appearance: · Form:	Fluid
· Color:	Yellowish
· Odor:	Characteristic
Change in condition	
· Melting point/Melting range:	undetermined
Boiling point/Boiling range:	
· Bolling polity Bolling range:	undetermined
· Flash point:	24 °C (75 °F)
· Ignition temperature:	425 °C (797 °F)
Auto igniting:	Product is not selfigniting.

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USA -



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Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2015 Reviewed on 05/12/2015

Trade name: iBOND Total Etch

(Contd. of page 4) · Danger of explosion: Product is not explosive. However, formation of explosive air/ vapor mixtures are possible. · Explosion limits: Lower: 3.5 Vol % 15.0 Vol % · Upper: · Vapor pressure at 20 °C (68 °F): 57 hPa (43 mm Hg) · Density: Not determined · Solubility in / Miscibility with Water: Not miscible or difficult to mix · 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

- Information on toxicological effects
 - Acute toxicity:
 - · Primary irritant effect:
 - on the skin: Irritant to skin and mucous membranes.
 - on the eye: Strong irritant with the danger of severe eye injury.
 - · Sensitization:
 - Sensitization possible through inhalation.
 - Sensitization possible through skin contact.
 - · Additional toxicological information: Harmful
 - · Carcinogenic categories
 - IARC (International Agency for Research on Cancer)

112926-00-8 amorphous silica

3

· 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: Avoid transfer into the environment. · Results of PBT and vPvB assessment
- - · **PBT:** Not applicable.

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Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2015 Reviewed on 05/12/2015

Trade name: iBOND Total Etch

(Contd. of page 5)

· 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.

UN-Number		
· DOT	UN1170	
· ADR, IMDG, IATA	1170	
UN proper shipping name		
· ADR	1170 ETHANOL SOLUTION	
· IMDG, IATA	ETHANOL SOLUTION	
Transport hazard class(es)		
· DOT		
A		
· Class	3 Flammable liquids	
· Label	3	
· ADR		
· Class	3 (F1) Flammable liquids	
· Label	3	
· IMDG, IATA		
*		
· Class	3 Flammable liquids	
· Label	3	
Packing group · DOT, ADR, IMDG, IATA	III	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Warning: Flammable liquids	



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Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2015 Reviewed on 05/12/2015

Trade name: iBOND Total Etch

	(Contd. of page 6)
Danger code (Kemler):EMS Number:	30 F-E,S-D
· Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	l of Not applicable.
· Transport/Additional information:	-
· UN "Model Regulation":	UN1170, Ethanol (Ethyl alcohol), 3, III

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)	
64-17-5	ethanol	A4
111-30-8	glutaral	A4

· GHS label elements

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

· Hazard pictograms







GHS02 GHS05 GHS08

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

ethanol

2-hydroxyethyl methacrylate

glutaral

4-methacryloxyethyltrimellitic acid anhydride

· Hazard statements

Flammable liquid and vapour.

Causes skin irritation.

Causes serious eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause cancer.

· 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.

(Contd. on page 8)

USA



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Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2015

Reviewed on 05/12/2015

Trade name: iBOND Total Etch

(Contd. of page 7)

· 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)

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 Sentiac (division of the American Chemical Sociation)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

CAS: Chemical Abstracts Service (division of the American Chemic NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Carc. 1A: Carcinogenicity, Hazard Category 1A

* Pata compared to the provious version altered

* Data compared to the previous version altered.



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Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017

Reviewed on 06/03/2017

Tel.: +49 (0)800 4372522

1 Identification

- · Product identifier
 - · Trade name: iBond Self Etch
 - · Application of the substance / the mixture Dental bonding material
- · 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)

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 acetone

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.

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Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017 Reviewed on 06/03/2017

Trade name: iBond Self Etch

(Contd. of page 1)

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.

Specific treatment (see on this label).

Store locked up.

· 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	25-50%
	Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336	
70293-55-9	4-methacryloxyethyltrimellitic acid anhydride	10-25%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
868-77-9	2-hydroxyethyl methacrylate	< 1%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	

· 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 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.

- Information for doctor
 - · Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3)



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Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017 Reviewed on 06/03/2017

Trade name: iBond Self Etch

(Contd. of page 2)

 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.
- · 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 13 for disposal information.

See Section 8 for information on personal protection equipment.

-

7 Handling and storage

- · Handling
 - 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.

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Safety Data Sheet acc. to OSHA HCS

Reviewed on 06/03/2017 Printing date 06/03/2017

Trade name: iBond Self Etch

Specific end use(s) No further relevant information available.

(Contd. of page 3)

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 BEI

· 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 required.
- 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.

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.

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: Safety glasses

(Contd. on page 5)



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Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017 Reviewed on 06/03/2017

Trade name: iBond Self Etch

· Body protection: Light weight protective clothing

(Contd. of page 4)

Physical and chemical propert	ies	
 Information on basic physical and chean General Information Appearance: Form: Color: Odor: 	nemical properties Fluid Yellowish Characteristic	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	undetermined 55°C (131°F)	
· Flash point:	-19 °C (-2 °F)	
· Flammability (solid, gaseous)	Not applicable.	
· Ignition temperature:	465 °C (869 °F)	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive. However, formation of explosivair/vapor mixtures are possible.	
Explosion limits: Lower: Upper:	2.6 Vol % 13.0 Vol %	
· Vapor pressure at 20 °C (68 °F):	247 hPa (185 mm Hg)	
 Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate 	1 g/cm³ (8.345 lbs/gal) Not determined. Not determined. Not determined.	
· Solubility in / Miscibility with · Water:	Partly miscible	
· Partition coefficient (n-octanol/water): Not determined.		
Viscosity: dynamic: kinematic: Other information	Not determined. Not determined. No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

(Contd. on page 6)



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Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017 Reviewed on 06/03/2017

Trade name: iBond Self Etch

(Contd. of page 5)

- · 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:

· Acui	Acute toxicity.		
· L.	· LD/LC50 values that are relevant for classification:		
67-64-1	67-64-1 acetone		
Oral	LD50	5800 mg/kg (rat)	
Dermal	LD50	20000 mg/kg (rabbit)	
41137-6	60-4 di	urethandimethacrylate	
		>5000 mg/kg (rat)	
	70293-55-9 4-methacryloxyethyltrimellitic acid anhydride		
		> 2000 mg/kg (mouse)	
Dermal	LD50	> 2000 mg/kg (mouse)	
868-77-	868-77-9 2-hydroxyethyl methacrylate		
Oral	LD50	5564 mg/kg (rat)	

- Dermal LD50 >3000 mg/kg (can)

 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:

67-64-1 acetone

EC50/48h 6100 mg/l (daphnia)

LC50/96h | 5540 mg/l (fish)

(Contd. on page 7)



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Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017 Reviewed on 06/03/2017

Trade name: iBond Self Etch

(Contd. of page 6)

868-77-9 2-hydroxyethyl methacrylate

LC50/96h | 227 mg/l (fish)

- · Persistence and degradability No further relevant information available.
- · 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 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.
 - · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

· UN-Number

• **DOT** UN1090 • **ADR, IMDG, IATA** 1090

· UN proper shipping name

· ADR 1090 ACETONE, solution ACETONE, solution

· Transport hazard class(es)

· DOT



· Class 3 Flammable liquids

(Contd. on page 8)

UŚA



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Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017 Reviewed on 06/03/2017

Trade name: iBond Self Etch

(Contd. of page 7) 3 · Label · ADR · Class 3 (F1) Flammable liquids · Label · IMDG, IATA · Class 3 Flammable liquids · Label · Packing group · DOT, ADR, IMDG, IATA · Environmental hazards: · Marine pollutant: No · Special precautions for user Warning: Flammable liquids · Danger code (Kemler): 33 · 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, solution, 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

A4

· GHS label elements

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

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Safety Data Sheet acc. to OSHA HCS

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Trade name: iBond Self Etch

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· Hazard pictograms





GHS02 GHS07

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

4-methacryloxyethyltrimellitic acid anhydride acetone

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): 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.

Specific treatment (see on this label).

Store locked up.

· 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.

H336 May cause drowsiness or dizziness.

· Date of preparation / last revision 06/03/2017 / 2

· 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

FINECS: Furging Inventory of Existing Commercial Chemical Substances

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

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Printing date 06/03/2017

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Trade name: iBond Self Etch

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
Skin Irrit. 2: Skin corrosion/irritation — Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation — Category 2A
Skin Sens. 1: Skin sensitisation — Category 1
STOT SE 3: Specific target organ toxicity (single exposure) — Category 3
* Data compared to the previous version altered.

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USA