SAFETY DATA SHEETS

This SDS packet was issued with item: 074491569

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

074491452 074491478 074491577 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).

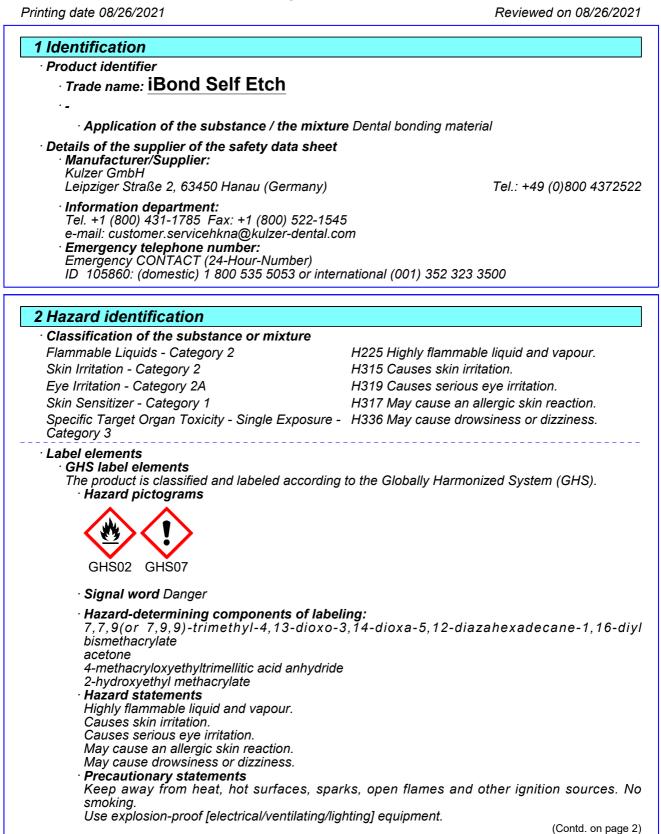
073580008 074491627 074491635 074491643 074491650 074491668 074491676



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Safety Data Sheet according to HPR, Schedule 1





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Printing date 08/26/2021 Trade name: iBond Self Etch (Contd. of page 1) Avoid breathing dust/fume/gas/mist/vapours/spray. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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. • Classification system • NFPA ratings for USA (scale 0-4)



 $\begin{array}{c|c} \text{HEALTH} & 2 \\ \hline \text{FIRE} & 3 \\ \hline \text{FIRE} & 3 \\ \hline \text{Fire} = 3 \\ \hline \end{array}$

REACTIVITY Reactivity = 0

Other hazards -

	haracterization: Mixtures tion: Composition based on methacrylates	
· Dangero	ous components:	
67-64-1	acetone	25-50% w/w *
	Flammable Liquids - Category 2, H225 Eye Irritation - Category 2A, H319; Specific Target Organ Toxicity - Single Exposure - Category 3, H336	
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12- diazahexadecane-1,16-diyl bismethacrylate Skin Sensitizer - Category 1B, H317	10-25% w/w *
70293-55-9	4-methacryloxyethyltrimellitic acid anhydride Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317	10-25% w/w *
868-77-9	2-hydroxyethyl methacrylate Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317	<i>≥</i> 0.1-<1% w/w

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.

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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: 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
- 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.

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

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	on 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			
EL STEL: 500 ppm TWA: 250 ppm			
EV STEL: 750 ppm TWA: 500 ppm			
· Additional info	ormation: The lists that were valid during the creation were used as basis.		
Avoid contact v Keep away fror Immediately re Wash hands be Avoid contact v	c tive and hygienic measures vith the eyes. In foodstuffs, beverages and feed. move all soiled and contaminated clothing efore breaks and at the end of work. vith the eyes and skin.		
Protection of	ipment: Not required. h ands: erial has to be impermeable and resistant to the product/ the substance/ t.		
the degradatior If skin contact o	cannot be avoided, protective gloves are recommended to		
avoid possible Check protectiv recommended • Material of	e gloves prior to each use for their proper condition.		
The selecti further mark preparatior calculated ii	on of the suitable gloves does not only depend on the material, but also on the solution of quality and varies from manufacturer to manufacturer. As the product is the of several substances, the resistance of the glove material can not the advance and has therefore to be checked prior to the application. The time of glove material		
The exact b	break through time has to be found out by the manufacturer of the protecti has to be observed.		
· For the per materials a Butyl rubber	manent contact of a maximum of 15 minutes gloves made of the following re suitable: 17, BR		
Nitrile rubbe • Eye protection • Body protectio	r, NBR n: Safety glasses on: Light weight protective clothing		
Physical and che	emical properties		
· Information on basi · General Informat	c physical and chemical properties ion		
Appearance: Form:	Fluid		

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Trade name: iBond Self Etch

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· Odor: · Odor threshold:	Characteristic 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 (-2.2 °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 o explosive air/vapor mixtures are possible.
• Explosion limits: • Lower: • Upper:	2.6 Vol % 13.0 Vol %
· Vapor pressure at 20 °C (68 °F):	247 hPa (185.3 mm Hg)
 Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate 	1 g/cm ³ (8.345 lbs/gal) Not determined. Not determined. Not determined.
• Solubility in / Miscibility with • Water:	Partly miscible
· Partition coefficient (n-octanol/wa	ater): Not determined.
· Viscosity: · dynamic: · kinematic:	Not determined. 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

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Trade name: iBond Self Etch

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CA

Acute toxicity: LD/LC50 values that are relevant for classification:				
67-64-1 acetone				
Oral	LD50	5800 mg/kg (rat)		
Dermal	LD50	>15800 mg/kg (rabbit) weight of evidence		
Inhalative	LC50/4 h	76 mg/l (rat) weight of evidence		
72869-86	4 7,7,9(or bismeth	7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diy acrylate		
Oral	LD50	>5000 mg/kg (rat) (OECD 401)		
Dermal	LD50	>2000 mg/kg (rat) (OECD 402)		
70293-55	70293-55-9 4-methacryloxyethyltrimellitic acid anhydride			
Oral	LD50	>2000 mg/kg (mouse)		
Dermal	LD50	>2000 mg/kg (mouse)		
868-77-9 2-hydroxyethyl methacrylate		ethyl methacrylate		
Oral	LD50	5564 mg/kg (rat)		
Dermal	LD50	>5000 mg/kg (can)		
Ser Additi	on the eyensitization onal toxic	n: No irritant effect. :: Irritating effect. : Sensitization possible through skin contact. ological information: Irritant : categories		
		rnational Agency for Research on Cancer)		
		nts is listed.		
	•			
None of th	NTP (Natio	onal Toxicology Program)		
None of th		onal Toxicology Program) nts is listed.		
None of th None of th	ne ingrediel	onal Toxicology Program) nts is listed. tive toxicity Based on available data, the classification criteria are not met.		

· Aquatic t	oxicity:
67-64-1 acet	one
EC50/48h	8800 mg/l (daphnia)
LC50/96h	6210 mg/l (fish) (OECD 203)
	7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl
b	ismethacrylate
EC50/48h	>1.2 mg/l (daphnia) (OECD 202)
LC50/96h	10.1 mg/l (fish) (OECD 203)
ErC50 / 72 h	>0.68 mg/l (algae) (OECD 201)
NOEC / 72h	0.21 mg/l (algae) (OECD 201)
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Trade name: iBond Self Etch

	(Contd. of page 6)
868-77-9 2-h	ydroxyethyl methacrylate
EC50/48h	380 mg/l (daphnia)
LC50/96h	>100 mg/l (fish)
	SDB von Évonik für <u>64715842 (11.04.2016)</u>
EC50	>3000 mg/l (bacteria)
	16 h
NOEC / 21d	24.1 mg/l (daphnia)
ErC50 / 72 h	836 mg/l (algae)
NOEC / 72h	400 mg/l (algae) (OECD 201)
Persistence	and degradability
67-64-1 acet	one
biodegradabil	ity 90.9 % /28d (nd) (OECD 301D)
	,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl ismethacrylate
biodegradabil	ity 22 % /28d (nd) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)
Bioaccun Mobility in Additional en General n Results of P PBT: Not vPvB: Not	environmental systems: nulative potential No further relevant information available. n soil No further relevant information available. cological information: notes: Do not allow product to reach ground water, water course or sewage system. BT and vPvB assessment applicable. t applicable. se 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.

UN-Number		
· DOT/TDG	UN1090	
· ADR, IMDG, IATA	1090	
UN proper shipping name		
ADR	1090 ACETONE, solution	
· IMDG, IATA	ACETONE, solution	



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Printing date 08/26/2021 Reviewed on 08/26/2021 Trade name: iBond Self Etch (Contd. of page 7) · Transport hazard class(es) · DOT/TDG (Transport dangerous goods): 3 Flammable liquids · Class · Label 3 · ADR · Class 3 (F1) Flammable liquids · Label · IMDG, IATA 3 Flammable liquids · Class · Label .3 Packing group
 DOT/TDG, ADR, IMDG, IATA \parallel · Environmental hazards: · Marine pollutant: No • Special precautions for user Warning: Flammable liquids Hazard identification number (Kemler 33 code): · 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 No further relevant information available.

· Sara

SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

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Trade name: iBond Self Etch

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

-	These data are based on our present knowledge. However, they shall not constitute a guarantee f
	any specific product features and shall not establish a legally valid contractual relationship.
`	· Relevant phrases
	H225 Highly flammable liquid and vapour.
	H315 Causes skin irritation.
	H317 May cause an allergic skin reaction.
	H319 Causes serious eye irritation.
	H336 May cause drowsiness or dizziness.
	· Date of the latest revision of the safety data sheet 08/26/2021 / 3
	· Abbreviations and acronyms:
	IMDG: International Maritime Code for Dangerous Goods
	DOT: US Department of 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