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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 11.09.2017 Version number 3 Revision: 11.09.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier
 - · Trade name: iBond Universal
- · 1.2 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
- · 1.3 Details of the supplier of the safety data sheet
 - · Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany)

· Informing department: E-Mail: msds@kulzer-dental.com

· 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
 - · Classification according to Regulation (EC) No 1272/2008

Flam. Lig. 2 H225 Highly flammable liquid and vapour.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

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

STOT SE 3 H336 May cause drowsiness or dizziness.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms





GHS02 GHS07

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

4-methacryloxyethylltrimellitic acid anhydride acetone

· Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P405 Store locked up.

· 2.3 Other hazards -

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

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
 - Description: -

	· Dangerous com	ponents:	
	CAS: 67-64-1		25-50%
ı	EINECS: 200-662-2	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	
(CAS: 70293-55-9	4-methacryloxyethyltrimellitic acid anhydride	10-25%
		Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	

· Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
 - After inhalation

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

- · After skin contact If skin irritation continues, consult a doctor.
- After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

· 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
 - Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- For safety reasons unsuitable extinguishing agents Water with a full water jet.
- · 5.2 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.

- · 5.3 Advice for firefighters
 - Protective equipment: No special measures required.
 - · Additional information -

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- · 6.2 Environmental precautions: Prevent material from reaching sewage system, holes and cellars.
- 6.3 Methods and material for containment and cleaning up:

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

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Ensure adequate ventilation.

Send for recovery or disposal in suitable containers.

· 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

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SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling Keep containers tightly sealed.
 - Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
 - Storage
 - · Requirements to be met by storerooms and containers: Store in cool location.
 - Information about storage in one common storage facility: Not required.
 - · Further information about storage conditions:

Keep receptacle tightly sealed.

Protect from the effects of light.

Store in cool, dry conditions in well sealed containers.

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

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · 8.1 Control parameters

· Components with critical values that require monitoring at the workplace:	
67-64-1 acetone	

WEL Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm

· DNELs

67-64-1 acetone

Oral	ge.pop., l.te, syst.	62 mg/Kg (nd)
Dermal	worker profess., acute, syst.	2420 mg/Kg/d (nd)
	worker profess., l.te., syst.	186 mg/Kg/d (nd)
	ge.pop., l.te, syst.	62 mg/Kg/d (nd)
Inhalative	worker profess., l.te., syst.	1210 mg/m3 (nd)
	ae.pop., l.te. svst.	200 mg/m3 (nd)

· PNECs

67-64-1 acetone

or or radotomo	
freshwater	10.6 mg/l (nd)
marine water	1.06 mg/l (rabbit)
STP	10.6 mg/l (nd) 1.06 mg/l (rabbit) 19.5 mg/l (nd)
sedim dw. fre.wat.	30.4 ma/Ka (nd)
sedim., dw, mar.wat.	3.04 mg/Kg (nd)
sedim., dw, mar.wat. soil,dw	0.112 mg/Kg (nd)

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· Additional information: The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

· Personal protective equipment

· General protective and hygienic measures

Avoid contact with the eyes.

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the 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 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 Nitrile rubber, NBR

· Eye protection: Safety glasses

· Body protection: Light weight protective clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and General Information	proposition proposition	
· App <u>e</u> arance:		
· Form:	Liquid	
· Colour:	Clear	
· Smell:	Characteristic	
· Odour threshold:	Not determined.	
· pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Not determined Not determined	
· Flash point:	-19 ℃	
· Inflammability (solid, gaseous)	Not applicable.	

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Trade name: iBond Universal

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· Ignition temperature:	
· Decomposition temperature:	Not determined.
· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.
 Critical values for explosion: Lower: Upper: 	Not determined. Not determined.
· Steam pressure:	Not determined.
 Density Relative density Vapour density Evaporation rate 	Not determined Not determined. Not determined. Not determined.
· Solubility in / Miscibility with · Water:	Partly miscible
· Partition coefficient (n-octanol/w	ater): Not determined.
· Viscosity: · dynamic: · kinematic:	Not determined. Not determined.
· Solvent content: · Water:	19.0 %
Solids content: 9.2 Other information	19.1 % No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available. 10.2 Chemical stability
- - Conditions to be avoided: Protect from heat and direct sunlight.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: None
 - · Additional information: -

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
 - Acute toxicity Based on available data, the classification criteria are not met.

2		
· L	D/LC5	0 values that are relevant for classification:
67-64-1		
		5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)
		urethandimethacrylate
Oral	LD50	>5000 mg/kg (rat)

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70293-55-9 4-methacryloxyethyltrimellitic acid anhydride

LD50 > 2000 mg/kg (mouse) Dermal LD50 > 2000 mg/kg (mouse)

· Primary irritant effect:

Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation Causes serious eye irritation.

· Respiratory or skin sensitisation May cause an allergic skin reaction.

- CARC effects (carcinogenity, mutagenicity and toxicity for reproduction)

 Germ cell mutagenicity Based on available data, the classification criteria are not met.

 Carcinogenicity Based on available data, the classification criteria are not met.

 - Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure

May cause drowsiness or dizziness.

- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
 - · Aquatic toxicity:

67-64-1 acetone

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

- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
 - · Additional ecological information:
 - General notes:

Do not allow product to reach ground water, water bodies or sewage system. Danger to drinking water if even small quantities leak into soil.

- 12.5 Results of PBT and vPvB assessment
 - PBT: Not applicable.
 - vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
 - Recommendation

Disposal must be made according to official regulations.

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.



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SECTION 14: Transport informat	
14.1 UN-Number · ADR, IMDG, IATA	UN1090
· 14.2 UN proper shipping name · ADR · IMDG, IATA	1090 ACETONE, mixture ACETONE, mixture
· 14.3 Transport hazard class(es) · ADR	
· Class · Label	3 (F1) Flammable liquids. 3
· IMDG, IATA	
· Class · Label	3 Flammable liquids. 3
14.4 Packing group ADR, IMDG, IATA	II
14.5 Environmental hazards: Marine pollutant:	No
· 14.6 Special precautions for user · Kemler Number: · EMS Number:	Warning: Flammable liquids. 33 F-E,S-D
14.7 Transport in bulk according to And of Marpol and the IBC Code	nex II Not applicable.
· Transport/Additional information:	-
· ADR · Limited quantities (LQ) · Transport category · Tunnel restriction code	1 L 2 D/E
· UN "Model Regulation":	UN1090, ACETONE, mixture, 3, II

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.



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SECTION 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 vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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

IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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)
DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LC50: Letrial concentration, 30 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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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Printing date 08.07.2020 Version number 4 Revision: 08.07.2020

SECTION 1: Identification of the substance/mixture and of the company/ undertakina

- · 1.1 Product identifier
 - · Trade name: VENUS Pearl
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 - · Application of the substance / the mixture Dental filling material
- · 1.3 Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany)

Tel.: +49 (0)800 4372522

- · Informing department: E-Mail: msds@kulzer-dental.com
- · 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
 - Classification according to Regulation (EC) No 1272/2008

H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · 2.2 Label elements
 - Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS07

- · Signal word Warning

· Hazard-determining components of labelling: 2-Propenoic acid, 1,1'-[(octahydro-4,7-methano-1H-indene-5,?-diyl) bis(methyleneoxycarbonylamino-2,1-ethanediyl)] ester

diurethandimethacrylate

triethylen glycol dimethacrylate

· Hazard statements

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label). P363 Wash contaminated clothing before reuse.

Additional information:

Contains isocyanates. May produce an allergic reaction.

- 2.3 Other hazards -
 - · Results of PBT and vPvB assessment
 - · **PBT:** Not applicable.

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· vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
 - · Description: -

· Dangerous components:		
_	2-Propenoic acid, 1,1'-[(octahydro-4,7-methano-1H-indene-5,?-diyl)bis(methyleneoxycarbonylamino-2,1-ethanediyl)] ester Skin Sens. 1, H317 Aquatic Chronic 3, H412	≥10-<25%
	diurethandimethacrylate Aquatic Chronic 2, H411 Skin Sens. 1B, H317	5-10%
	triethylen glycol dimethacrylate Skin Sens. 1B, H317	≥1-≤5%
EINECS: 205-031-5	2-Hydroxy-4-methoxy benzophenone Aquatic Acute 1, H400; Aquatic Chronic 2, H411	≥0.25-<1%

[·] Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
 - After inhalation Supply fresh air; consult doctor in case of symptoms.
 - After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eve contact

Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

· 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

Use fire fighting measures that suit the environment.

- CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

· Protective equipment: No special measures required.

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Trade name: VENUS Pearl

· Additional information -

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SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Do not allow to enter drainage system, surface or ground water.

Do not allow to enter the ground/soil.

· 6.3 Methods and material for containment and cleaning up:

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

Dispose of the material collected according to regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

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SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
 - Information about protection against explosions and fires: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
 - Storage
 - · Requirements to be met by storerooms and containers: No special requirements.
 - Information about storage in one common storage facility: Not required.
 - Further information about storage conditions: None.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
 - Components with critical values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Not required.

· DNELs

109-16-0 triethylen glycol dimethacrylate

Dermal worker industr., I.te., syst. 13.9 mg/Kg/d (nd) Inhalative worker industr., I.te., syst. 48.5 mg/m3 (nd)

PNECs

109-16-0 triethylen glycol dimethacrylate

marine water 0.0164 mg/l (nd) sedim., dw, fre.wat. 1.85 mg/Kg (nd) sedim., dw, mar.wat. 0.185 mg/Kg (nd) soil,dw 0.274 mg/Kg (nd)

· Additional information: The lists that were valid during the compilation were used as basis.

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· 8.2 Exposure controls

· Personal protective equipment

General protective and hygienic measures

Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.

Breathing equipment: Not required.

· Protection of hands:

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 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 Nitrile rubber, NBR

· Eye protection: not absolutely neccessary

· Body protection: Light weight protective clothing

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties • General Information • Appearance: • Form: • Colour: • Smell: • Odourless • Odour threshold: • Ph-value: • Not determined. • Change in condition • Melting point/freezing point: • Initial boiling point and boiling range: > 250 °C • Flash point: • 165 °C • Inflammability (solid, gaseous) • Decomposition temperature: • Not determined • Initial boiling point and boiling range: > 165 °C • Inflammability (solid, gaseous) • Product is not selfigniting. • Explosive properties: Product is not explosive.	
· Appearance: · Form: · Colour: · Smell: · Odour threshold: · PH-value: · Melting point/freezing point: · Initial boiling point and boiling range: > 250 °C · Flash point: · Decomposition temperature: · Self-inflammability: · Explosive properties: Pasty Different according to colour Odourless Not determined. Not determined. Not determined · Not determined · Not applicable. · Decomposition temperature: Not determined. · Product is not selfigniting. · Explosive properties: Product is not explosive.	
Form: Colour: Odourless Odour threshold: Not determined. Ph-value: Not determined Not determined Initial boiling point and boiling range: > 250 °C Flash point: Inflammability (solid, gaseous) Decomposition temperature: Not determined Not determined Not applicable. Not applicable. Product is not selfigniting. Froduct is not explosive.	
Colour: Smell: Odourless Not determined. PH-value: Not determined Change in condition Melting point/freezing point: Initial boiling point and boiling range: > 250 °C Flash point: Inflammability (solid, gaseous) Not applicable. Decomposition temperature: Not determined Not determined Not applicable. Product is not selfigniting. Explosive properties: Product is not explosive.	
Smell: Odour threshold: Not determined. PH-value: Not determined. Change in condition Melting point/freezing point: Not determined Initial boiling point and boiling range: > 250 °C Flash point: > 165 °C Inflammability (solid, gaseous) Not applicable. Decomposition temperature: Not determined. Self-inflammability: Product is not selfigniting. Explosive properties: Product is not explosive.	
Odour threshold: Not determined. Not determined. Change in condition Melting point/freezing point: Not determined Initial boiling point and boiling range: > 250 °C Flash point: > 165 °C Inflammability (solid, gaseous) Not applicable. Decomposition temperature: Not determined. Self-inflammability: Product is not selfigniting. Explosive properties: Product is not explosive.	
 pH-value: Not determined. Change in condition Melting point/freezing point: Not determined Initial boiling point and boiling range: > 250 °C Flash point: > 165 °C Inflammability (solid, gaseous) Not applicable. Decomposition temperature: Not determined. Self-inflammability: Product is not selfigniting. Explosive properties: Product is not explosive. 	
Change in condition · Melting point/freezing point: · Initial boiling point and boiling range: > 250 °C · Flash point: · Inflammability (solid, gaseous) · Decomposition temperature: · Decomposition temperature: · Self-inflammability: · Product is not selfigniting. · Explosive properties: Product is not explosive.	
 Melting point/freezing point: Initial boiling point and boiling range: > 250 °C Flash point: Inflammability (solid, gaseous) Decomposition temperature: Not determined. Self-inflammability: Product is not selfigniting. Explosive properties: Product is not explosive. 	
Initial boiling point and boiling range: > 250 °C Flash point: > 165 °C Inflammability (solid, gaseous) Not applicable. Decomposition temperature: Not determined. Self-inflammability: Product is not selfigniting. Explosive properties: Product is not explosive.	
 Flash point: > 165 °C Inflammability (solid, gaseous) Not applicable. Decomposition temperature: Not determined. Self-inflammability: Product is not selfigniting. Explosive properties: Product is not explosive. 	
 Inflammability (solid, gaseous) Decomposition temperature: Self-inflammability: Explosive properties: Not applicable. Not determined. Product is not selfigniting. Product is not explosive. 	
Decomposition temperature: Self-inflammability: Product is not selfigniting. Explosive properties: Product is not explosive.	
Self-inflammability:Product is not selfigniting.Explosive properties:Product is not explosive.	
Explosive properties: Product is not explosive.	
· Critical values for explosion:	
Lower: Not determined.	
· Upper: Not determined.	
Steam pressure: Not determined.	

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· Density at 20 °C 2.1 g/cm3

Not determined. · Relative density · Vapour density Not determined. · Evaporation rate Not determined.

· Solubility in / Miscibility with

Not miscible or difficult to mix Water:

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

· dvnamic: Not determined. · kinematic: Not determined.

· 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
 - Conditions to be avoided: No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: None
 - Additional information: -

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
 - · Acute toxicity Based on available data, the classification criteria are not met.

72869-86-4 diurethandimethacrylate

Oral LD50 >5,000 mg/kg (rat) (OECD 401) Dermal LD50 >2,000 mg/kg (rat) (OECD 402)

109-16-0 triethylen glycol dimethacrylate

LD50 8,300 mg/kg (rat) Oral

Dermal LD50 >2,000 mg/kg (mouse)

131-57-7 2-Hydroxy-4-methoxy benzophenone

LD50 12,800 mg/kg (rat) (OECD 401)

Dermal LD50 >16,000 mg/kg (rabbit) (OECD 402)

- Primary irritant effect:
 - · Skin corrosion/irritation Based on available data, the classification criteria are not met.
 - Serious eye damage/irritation

Based on available data, the classification criteria are not met.

· Respiratory or skin sensitisation

May cause an allergic skin reaction.

- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
 - Germ cell mutagenicity Based on available data, the classification criteria are not met.
 - Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.

· STOT-single exposure Based on available data, the classification criteria are not met.

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- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
 - · Aquatic toxicity:

72869-86-4 diurethandimethacrylate

LC50/96h | 10.1 mg/l (fish)

109-16-0 triethylen glycol dimethacrylate

EC50/72h >100 mg/l (algae)

- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
 - Additional ecological information:
 - · General notes: Avoid transfer into the environment.
- · 12.5 Results of PBT and vPvB assessment
 - · PBT: Not applicable.
 - · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
 - Recommendation

Small quantities can be polymerized by light and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities.

- · Uncleaned packagings:
 - · Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number		
· ADR, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name		
· ADR, ADN, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA		
Class	Void	
14.4 Packing group		
· ADR, IMĎĞ, IATA	Void	
14.5 Environmental hazards:		
· Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	

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14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

· Transport/Additional information:

UN "Model Regulation": Void

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 - REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

GHS. Globally Harmonised System of Classification and Labelling of Chemical ElNECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1B

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard — Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard — Category 3

* Data compared to the previous version altered.