

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

Printing date 25.05.2022


Version number 5 (replaces version 4)

Revision: 25.05.2022

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

- **1.1 Product identifier**
  - Trade name: **Technovit powder 6091**
- **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**  
Resin for the treatment of claws and extracutaneous splinting
- **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
Kulzer GmbH  
Leipziger Straße 2, 63450 Hanau (Germany)  
Tel.: +49 (0)6181 9689-2570 (Wehrheim)
  - **Informing department:** email: technik.wehrheim@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**  
Aquatic Chronic 2 H411 Toxic 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 GB CLP regulation.
      - **Hazard pictograms**
- 

GHS09
- **Signal word** Void
  - **Hazard statements**  
H411 Toxic to aquatic life with long lasting effects.
  - **Precautionary statements**  
P273 Avoid release to the environment.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
  - **Additional information:**  
Contains dibenzoyl peroxide, n-butyl acrylate. May produce an allergic reaction.
  - **2.3 Other hazards**
    - **Results of PBT and vPvB assessment**
      - **PBT:** Not applicable.
      - **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Dangerous components:**

CAS: 94-36-0	dibenzoyl peroxide	≥0.25-<1%
EINECS: 202-327-6	Self-react. B, H241; Org. Perox. B, H241	
Reg.nr.: 01-2119511472-50-xxxx	Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10)	
	Eye Irrit. 2, H319; Skin Sens. 1, H317	

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**Trade name: Technovit powder 6091**

CAS: 141-32-2  
EINECS: 205-480-7  
Reg.nr.: 01-2119453155-43-xxxx

n-butyl acrylate  
Flam. Liq. 3, H226  
Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2,  
H319; Skin Sens. 1, H317; STOT SE 3, H335  
Aquatic Chronic 3, H412  
ATE: LC50/4 h inhalative: 10.3 mg/l

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≥0.1-&lt;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**
  - **General information** No special measures required.
  - **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 or rash occurs: Get medical advice/attention.
  - **After eye contact**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.  
Remove contact lenses, if present and easy to do. Continue rinsing.
  - **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**  
CO<sub>2</sub>, 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**  
Formation of toxic gases is possible during heating or in case of fire.  
Combustible solids. Fine dust clouds can form explosive mixtures with air.  
Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide (CO)
- **5.3 Advice for firefighters**
  - **Protective equipment:**  
Wear self-contained breathing apparatus.  
(EN 133)
  - **Additional information** -

#### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Keep people at a distance and stay on the windward side.  
Wear protective clothing.  
Avoid causing dust.  
Keep away from ignition sources  
Avoid contact with eyes and skin.

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- **6.2 Environmental precautions:**  
 Do not allow to enter drainage system, surface or ground water.  
 Damp down dust with water spray jet.  
 Do not allow to enter the ground/soil.
- **6.3 Methods and material for containment and cleaning up:**  
 Collect mechanically.  
 Send for recovery or disposal in suitable containers.  
 Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**  
 See Section 8 for information on personal protection equipment.  
 See Section 7 for information on safe handling

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
 Wear protective equipment. Keep unprotected persons away.  
 Avoid contact with eyes and skin.  
 Ensure good ventilation/exhaustion at the workplace.  
 Prevent formation of dust.  
 Any deposit of dust which cannot be avoided must be removed regularly.  
 Provide suction extractors if dust is formed.
  - **Information about protection against explosions and fires:**  
 Dust can combine with air to form an explosive mixture.  
 Use explosion-proof apparatus / fittings and spark-proof tools.  
 Keep ignition sources away - Do not smoke.  
 Protect against electrostatic charges.
  - **Handling**  
 do not mix with  
 reducing agent  
 Strong bases  
 Strong oxidizers  
 Strong acids
- **7.2 Conditions for safe storage, including any incompatibilities**
  - **Storage**
    - **Requirements to be met by storerooms and containers:**  
 Store in cool, dry place in tightly closed containers.
    - **Information about storage in one common storage facility:** Not required.
    - **Further information about storage conditions:** Store cool (not above 25 °C).
- **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

· **8.1 Control parameters**

· <b>Components with critical values that require monitoring at the workplace:</b>	
<b>94-36-0 dibenzoyl peroxide</b>	
WEL (Great Britain)	Long-term value: 5 mg/m <sup>3</sup>
<b>141-32-2 n-butyl acrylate</b>	
WEL (Great Britain)	Short-term value: 26 mg/m <sup>3</sup> , 5 ppm Long-term value: 5 mg/m <sup>3</sup> , 1 ppm
IOELV (European Union)	Short-term value: 53 mg/m <sup>3</sup> , 10 ppm Long-term value: 11 mg/m <sup>3</sup> , 2 ppm

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· DNELs		
<b>94-36-0 dibenzoyl peroxide</b>		
Oral	general population, long term, systemic	2 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	13.3 mg/Kg/d (not defined)
Inhalative	worker industrial, long term, systemic	39 mg/m <sup>3</sup> (not defined)
<b>141-32-2 n-butyl acrylate</b>		
Inhalative	worker industrial, long term, local	11 mg/m <sup>3</sup> (not defined)
· PNECs		
<b>94-36-0 dibenzoyl peroxide</b>		
freshwater		0.00002 mg/l (not defined)
marine water		0.000002 mg/l (not defined)
sewage treatment plant		0.35 mg/l (not defined)
sediment, dry weight, freshwater		0.013 mg/Kg (not defined)
sediment, dry weight, marine water		0.001 mg/Kg (not defined)
soil, dry weight		0.003 mg/Kg (not defined)
<b>141-32-2 n-butyl acrylate</b>		
freshwater		0.003 mg/l (not defined)
marine water		0 mg/l (not defined)
sewage treatment plant		3.5 mg/l (not defined)
sediment, dry weight, freshwater		0.034 mg/Kg (not defined)
sediment, dry weight, marine water		0.003 mg/Kg (not defined)
soil, dry weight		1 mg/Kg (not defined)

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

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see item 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures**

Do not inhale dust / smoke / mist.

Do not eat or drink while working.

The usual precautionary measures should be adhered to in handling the chemicals.

Avoid contact with the eyes and skin.

Wash hands during breaks and at the end of the work.

· **Breathing equipment:**

Filter P3.

Use a mask with particle filter in case of dust generation.

· **Hand protection**

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

chemical protection gloves are suitable, which are tested according to EN 374

Check protective gloves prior to each use for their proper condition.

· **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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NBR: acrylonitrile-butadiene rubber (0,11 mm)

- **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.  
>30 min
- **Eye/face protection** eye protection (EN 166)
- **Body protection:** Light weight protective clothing
- **Environmental exposure controls**  
Do not allow to enter drainage system, surface or ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

- **Physical state** Solid.
- **Colour:** According to product specification
- **Smell:** Odourless
  - **Odour threshold:** Not determined.
- **Melting point/freezing point:** Not determined
- **Boiling point or initial boiling point and boiling range** 147 °C (141-32-2 n-butyl acrylate)
- **Flammability** Not determined.
- **Lower and upper explosion limit**
  - **Lower:** Not determined.
  - **Upper:** Not determined.
- **Flash point:** Not applicable
- **Decomposition temperature:** Not determined.
- **SADT**
- **pH** Not applicable.
- **Viscosity:**
  - **Kinematic viscosity** Not applicable.
  - **dynamic:** Not applicable.
- **Solubility**
  - **Water:** Insoluble
- **Partition coefficient n-octanol/water (log value)** Not determined.
- **Steam pressure:** Not applicable.
- **Density and/or relative density**
  - **Density** Not determined
  - **Relative density** Not determined.
  - **Vapour density** Not applicable.

### 9.2 Other information

- **Appearance:** No further relevant information available.
- **Form:** Powder
- **Important information on protection of health and environment, and on safety.**
  - **Self-inflammability:** Product is not selfigniting.
  - **Explosive properties:** Product is not explosive. However, formation of explosive powder/air mixtures is possible.
- **Change in condition**
- **Evaporation rate** Not applicable.

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**Information with regard to physical hazard classes**

· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

**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**  
Risk of dust explosion if enriched with fine dust in presence of air
- **10.4 Conditions to avoid** Heat, flames and sparks.
- **10.5 Incompatible materials:**  
Strong oxidizers  
reducing agent  
Strong bases  
Strong acids
- **10.6 Hazardous decomposition products:** None

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
  - **Acute toxicity** Based on available data, the classification criteria are not met.

**LD/LC50 values that are relevant for classification:**

**94-36-0 dibenzoyl peroxide**

Oral	LD0	>2,000 mg/kg (mouse) (OECD 401)
Inhalative	LC0/4h	24.3 ppm (rat) (OECD 403)

**141-32-2 n-butyl acrylate**

Oral	LD50	3,150 mg/kg (rat) (OECD 401)
Inhalative	LC50/4 h	10.3 mg/l (ATE)

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

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- **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.
- **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.

· **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information**

· **12.1 Toxicity**

- **Aquatic toxicity:**

**94-36-0 dibenzoyl peroxide**

EC50/72h	0.042 mg/l (algae) (OECD 201)
EC50/48h	0.11 mg/l (daphnia) (OECD 202)
LC50/96h	0.06 mg/l (fish) (OECD 203)
ErC50 / 72 h	0.071 mg/l (algae) (OECD 201)
NOEC / 72h	0.02 mg/l (algae) (OECD 201)
NOEC / 96h	0.032 mg/l (fish) (OECD 203)
NOEC / 48h	0.076 mg/l (daphnia) (OECD 202)
ErC10	0.001 mg/L /21d (daphnia) (OECD 211)

**141-32-2 n-butyl acrylate**

EC50/72h	2.65 mg/l (algae) (OECD 201)
EC50/48h	8.2 mg/l (daphnia) (OECD 202)
LC50/96h	5.2 mg/l (fish) (OECD 203)
NOEC / 21d	0.136 mg/l (daphnia) (OECD 211)
NOEC / 96h	3.8 mg/l (fish) (EPA OTS 797.1400)

· **12.2 Persistence and degradability**

**94-36-0 dibenzoyl peroxide**

Biodegradation 71 % /28d (not defined) (OECD 301D)

**141-32-2 n-butyl acrylate**

Biodegradation 80-90 % /28d (not defined) (OECD 310)

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

- **Additional ecological information:**

- **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Do not allow product to reach ground water, water bodies or sewage system.

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Danger to drinking water if even small quantities leak into soil.

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**SECTION 13: Disposal considerations**

· **13.1 Waste treatment methods**

· **Recommendation**

Small quantities can be polymerized with the matching system component(s) and the cured solid material can be disposed of with the regular garbage.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

· **14.1 UN number or ID number**

· ADR, IMDG, IATA

UN3077

· **14.2 UN proper shipping name**

· ADR

3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Ethylene dibenzoate, dibenzoyl peroxide)

· IMDG

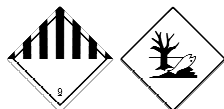
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Ethylene dibenzoate, dibenzoyl peroxide), MARINE POLLUTANT

· IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Ethylene dibenzoate, dibenzoyl peroxide)

· **14.3 Transport hazard class(es)**

· ADR



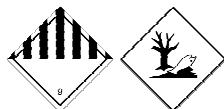
· Class

9 (M7) Miscellaneous dangerous substances and articles.

· Label

9

· IMDG, IATA



· Class

9 Miscellaneous dangerous substances and articles.

· Label

9

· **14.4 Packing group**

· ADR, IMDG, IATA

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· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	Yes
	Symbol (fish and tree)
· <b>Special marking (ADR):</b>	Symbol (fish and tree)
· <b>Special marking (IATA):</b>	Symbol (fish and tree)
· <b>14.6 Special precautions for user</b>	
	Warning: Miscellaneous dangerous substances and articles.
· <b>Kemler Number:</b>	90
· <b>EMS Number:</b>	F-A, S-F
· <b>Stowage Category</b>	A
· <b>Stowage Code</b>	SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	
	Not applicable.
· <b>Transport/Additional information:</b>	
-	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	5 kg
· <b>Excepted quantities (EQ)</b>	Code: E1
	Maximum net quantity per inner packaging:
	30 g
	Maximum net quantity per outer packaging:
	1000 g
· <b>Transport category</b>	3
· <b>Tunnel restriction code</b>	(-)
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5 kg
· <b>Excepted quantities (EQ)</b>	Code: E1
	Maximum net quantity per inner packaging:
	30 g
	Maximum net quantity per outer packaging:
	1000 g
· <b>UN "Model Regulation":</b>	
	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ETHYLENE DIBENZOATE, DIBENZOYL PEROXIDE), 9, III

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Directive 2012/18/EU**
    - **Named dangerous substances - ANNEX I** None of the ingredients is listed.
    - **Seveso category E2** Hazardous to the Aquatic Environment
    - **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
    - **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
  - **Information about limitation of use:**
    - Employment restrictions concerning young persons must be observed.
    - Employment restrictions concerning women of child-bearing age must be observed.

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· **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**

- H226 Flammable liquid and vapour.
- H241 Heating may cause a fire or explosion.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

· **Abbreviations and acronyms:**

- SADT: Self Accelerating Decomposition Temperature
- 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
- 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 (UK REACH)
- PNEC: Predicted No-Effect Concentration (UK REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 3: Flammable liquids – Category 3
- Self-react. B: Self-reactive substances and mixtures – Type B
- Org. Perox. B: Organic peroxides – Type B
- Acute Tox. 4: Acute toxicity – Category 4
- 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
- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - long-term 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

· **Sources**

- (EC) 1272/2008: classification, labelling and packaging of substances and mixtures
- (EC) 1907/2006: UK REACH
- ADR/RID/ADN - IMDG - IATA: transport of dangerous goods by road, rail, inland waterway, with maritime vessels and for the air transport

· \* **Data compared to the previous version altered.**

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**Trade name: **Technovit 6091 Liquid****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**  
Resin for the treatment of claws and extracutaneous splinting**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany)

Tel.: +49 (0)6181 9689-2570 (Wehrheim)

**Informing department:** email: [technik.wehrheim@kulzer-dental.com](mailto:technik.wehrheim@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. Liq. 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 H335 May cause respiratory irritation.

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

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

**Hazard pictograms**

GHS02 GHS07

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

methyl methacrylate

2-hydroxyethyl methacrylate

2,2'-[(4-methylphenyl)imino]bisethanol

methacrylamide

**Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

· **2.3 Other hazards -**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

· **3.2 Mixtures**

· **Description:** -

· **Dangerous components:**

CAS: 80-62-6 EINECS: 201-297-1 Reg.nr.: 01-2119452498-28-xxxx	methyl methacrylate Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	50-75%
CAS: 868-77-9 EINECS: 212-782-2 Reg.nr.: 01-2119490169-29-xxxx	2-hydroxyethyl methacrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	25-50%
CAS: 79-39-0 EINECS: 201-202-3 Reg.nr.: 01-2119381761-35-0000	methacrylamide STOT SE 2, H371; STOT RE 2, H373 Acute Tox. 4, H302; Eye Irrit. 2, H319; STOT SE 3, H335 ATE: LD50 oral: 1,815 mg/kg	0-5%
CAS: 3077-12-1 EINECS: 221-359-1 Reg.nr.: 01-2120791684-40-xxxx	2,2'-[(4-methylphenyl)imino]bisethanol Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Sens. 1, H317 Aquatic Chronic 3, H412 ATE: LD50 oral: 959 mg/kg	≥1-<2.5%
CAS: 150-76-5 EINECS: 205-769-8 Reg.nr.: 01-2119541813-40-xxxx	mequinol Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1, H317 Aquatic Chronic 3, H412 ATE: LD50 oral: 1,630 mg/kg	≥0.1-<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**

· **General information**

Take affected persons into the open air.

Instantly remove any clothing soiled by the product.

Personal protection for the First Aider.

· **After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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

· **After skin contact**

Instantly wash with water and soap and rinse thoroughly.

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

· **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.  
 Remove contact lenses, if present and easy to do. Continue rinsing.

· **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**

Allergic reactions

Breathing difficulty

Coughing

· **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** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

· **For safety reasons unsuitable extinguishing agents** Water.

· **5.2 Special hazards arising from the substance or mixture**

Can form explosive gas-air mixtures.

Can be released in case of fire

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

Nitrogen oxides (NO<sub>x</sub>)

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

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear self-contained breathing apparatus.

(EN 133)

· **Additional information -**

**SECTION 6: Accidental release measures**

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Avoid contact with eyes and skin.

Do not breathe vapor / mist / gas.

Ensure adequate ventilation

Keep away from ignition sources

· **6.2 Environmental precautions:**

Prevent material from reaching sewage system, holes and cellars.

Damp down gases/fumes/haze with water spray jet.

· **6.3 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 containers.

Do not flush with water or aqueous cleansing agents

· **6.4 Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

- Keep containers tightly sealed.
- Ensure good ventilation/exhaustion at the workplace.
- Avoid contact with eyes and skin.
- Do not breathe vapor / mist / gas.
- Keep away from heat and direct sunlight.
- Prevent formation of aerosols.
- Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

**Information about protection against explosions and fires:**

- Keep ignition sources away - Do not smoke.
- Fumes can combine with air to form an explosive mixture.
- Use explosion-proof apparatus / fittings and spark-proof tools.
- Do not spray on flames or red-hot objects.
- Protect against electrostatic charges.

**Handling**

- do not mix with
- organic peroxides
- Radical initiator
- reducing agent
- Strong bases
- Strong oxidizers
- Strong acids
- amine
- metals

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage**

- Requirements to be met by storerooms and containers:**  
 Store in cool, dry place in tightly closed containers.
- Information about storage in one common storage facility:** Not required.
- Further information about storage conditions:**  
 Protect from humidity and keep away from water.

**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:**

**80-62-6 methyl methacrylate**

WEL (Great Britain)	Short-term value: 416 mg/m <sup>3</sup> , 100 ppm Long-term value: 208 mg/m <sup>3</sup> , 50 ppm
IOELV (European Union)	Short-term value: 100 ppm Long-term value: 50 ppm

**DNELs**

**80-62-6 methyl methacrylate**

Oral	general population, long term, systemic	8.2 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	13.67 mg/Kg/d (not defined)
	general population, long term, systemic	8.2 mg/Kg/d (not defined)
Inhalative	worker industrial, acute, local	416 mg/m <sup>3</sup> (not defined)

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	worker industrial, long term, systemic	348.4 mg/m <sup>3</sup> (not defined)
	worker industrial, long term, local	208 mg/m <sup>3</sup> (not defined)
	general population, acute, local	208 mg/m <sup>3</sup> (not defined)
	general population, long term, systemic	74.3 mg/m <sup>3</sup> (not defined)
<b>868-77-9 2-hydroxyethyl methacrylate</b>		
Oral	general population, long term, systemic	0.83 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	1.3 mg/Kg/d (not defined)
	general population, long term, systemic	0.83 mg/Kg/d (not defined)
Inhalative	worker industrial, long term, systemic	4.9 mg/m <sup>3</sup> (not defined)
	general population, long term, systemic	2.9 mg/m <sup>3</sup> (not defined)
<b>79-39-0 methacrylamide</b>		
Oral	worker industrial, long term, systemic	0.73 mg/Kg (not defined)
	general population, long term, systemic	0.64 mg/Kg (not defined)
Dermal	worker professional, acute, systemic	1 mg/Kg/d (not defined)
	worker industrial, long term, systemic	1 mg/Kg/d (not defined)
Inhalative	worker industrial, acute, systemic	7.89 mg/m <sup>3</sup> (not defined)
	worker industrial, acute, local	2.54 mg/m <sup>3</sup> (not defined)
	worker industrial, long term, systemic	7.89 mg/m <sup>3</sup> (not defined)
	worker industrial, long term, local	2.54 mg/m <sup>3</sup> (not defined)
<b>3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol</b>		
Oral	general population, long term, systemic	0.16 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	0.47 mg/Kg/d (not defined)
	general population, long term, systemic	0.17 mg/Kg/d (not defined)
Inhalative	worker industrial, long term, systemic	3.29 mg/m <sup>3</sup> (not defined)
	general population, long term, systemic	0.58 mg/m <sup>3</sup> (not defined)
<b>150-76-5 mequinol</b>		
Inhalative	worker industrial, long term, systemic	3 mg/m <sup>3</sup> (not defined)
<b>PNECs</b>		
<b>80-62-6 methyl methacrylate</b>		
	freshwater	0.94 mg/l (not defined)
	marine water	0.094 mg/l (not defined)
	sewage treatment plant	10 mg/l (not defined)
	sediment, dry weight, freshwater	10.2 mg/Kg (not defined)
	sediment, dry weight, marine water	0.102 mg/Kg (not defined)
	soil, dry weight	1.48 mg/Kg (not defined)
<b>868-77-9 2-hydroxyethyl methacrylate</b>		
	freshwater	0.482 mg/l (not defined)
	marine water	0.482 mg/l (not defined)
	sewage treatment plant	10 mg/l (not defined)
	sediment, dry weight, freshwater	3.79 mg/Kg (not defined)
	sediment, dry weight, marine water	3.79 mg/Kg (not defined)
	soil, dry weight	0.476 mg/Kg (not defined)
<b>79-39-0 methacrylamide</b>		
	freshwater	2 mg/l (not defined)

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marine water	0.2 mg/l (not defined)
sewage treatment plant	713 mg/l (not defined)
sediment, dry weight, freshwater	8.95 mg/Kg (not defined)
sediment, dry weight, marine water	0.895 mg/Kg (not defined)
soil, dry weight	0.617 mg/Kg (not defined)
<b>3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol</b>	
freshwater	0.026 mg/l (not defined)
marine water	0.003 mg/l (not defined)
sewage treatment plant	10 mg/l (not defined)
sediment, dry weight, freshwater	0.121 mg/Kg (not defined)
sediment, dry weight, marine water	0.012 mg/Kg (not defined)
soil, dry weight	0.009 mg/Kg (not defined)
<b>150-76-5 mequinol</b>	
freshwater	0.014 mg/l (not defined)
marine water	0.001 mg/l (not defined)
sewage treatment plant	10 mg/l (not defined)
sediment, dry weight, freshwater	0.125 mg/Kg (not defined)
sediment, dry weight, marine water	0.013 mg/Kg (not defined)
soil, dry weight	0.017 mg/Kg (not defined)

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

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see item 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures**

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.

Do not eat or drink while working.

The usual precautionary measures should be adhered to in handling the chemicals.

Do not inhale gases / fumes / aerosols.

· **Breathing equipment:**

Use breathing protection in case of insufficient ventilation.

Filter A/P2.

· **Hand protection**

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

chemical protection gloves are suitable, which are tested according to EN 374

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.

· **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.

NBR: acrylonitrile-butadiene rubber (0,11 mm)

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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.  
>30 min
- **Eye/face protection** eye protection (EN 166)
- **Body protection:** Light weight protective clothing
- **Environmental exposure controls**  
Do not allow to enter drainage system, surface or ground water.

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

- **General Information**
  - **Physical state** Fluid
  - **Colour:** Colourless
  - **Smell:** Characteristic
    - **Odour threshold:** Not determined.
  - **Melting point/freezing point:** Not determined
  - **Boiling point or initial boiling point and boiling range** 100.3 °C (80-62-6 methyl methacrylate)
  - **Flammability** Not applicable.
  - **Lower and upper explosion limit**
    - **Lower:** Not determined.
    - **Upper:** Not determined.
  - **Flash point:** 10 °C (80-62-6 methyl methacrylate)
  - **Ignition temperature:** 435 °C (80-62-6 methyl methacrylate)
  - **Decomposition temperature:** Not determined.
- **SADT** Not determined.
- **pH** Not determined.
- **Viscosity:**
  - **Kinematic viscosity** Not determined.
  - **dynamic:** Not determined.
- **Solubility**
  - **Water:** Not miscible or difficult to mix
- **Partition coefficient n-octanol/water (log value)** Not determined.
- **Steam pressure at 20 °C:** 37 hPa (80-62-6 methyl methacrylate)
- **Density and/or relative density**
  - **Density at 20 °C** 0.98809 g/cm<sup>3</sup>
  - **Relative density** Not determined.
  - **Vapour density** Not determined.

- **9.2 Other information** No further relevant information available.
- **Appearance:**
  - **Form:** Fluid
- **Important information on protection of health and environment, and on safety.**
  - **Self-inflammability:** Product is not selfigniting.
  - **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures is possible.
- **Change in condition**
  - **Evaporation rate** Not determined.

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**Information with regard to physical hazard classes**

· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b> Highly flammable liquid and vapour.	
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

**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** Exothermic polymerisation
- **10.4 Conditions to avoid**  
moisture exposure  
Heat, flames and sparks.
- **10.5 Incompatible materials:**  
organic peroxides  
Radical initiator  
reducing agent  
Strong bases  
Strong oxidizers  
Strong acids  
amine  
metals
- **10.6 Hazardous decomposition products:** None
  - **Additional information:** -

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
  - **Acute toxicity** Based on available data, the classification criteria are not met.

**LD/LC50 values that are relevant for classification:**

**80-62-6 methyl methacrylate**

Oral	LD50	~7,900 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (guinea pig) (OECD 402)

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Inhalative	LC50/4 h	29.8 mg/l (rat)
<b>868-77-9 2-hydroxyethyl methacrylate</b>		
Oral	LD50	5,564 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
<b>79-39-0 methacrylamide</b>		
Oral	LD50	1,815 mg/kg (ATE) 1,815 mg/kg (rat) (OECD 401)
<b>3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol</b>		
Oral	LD50	959 mg/kg (ATE) 959 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
<b>150-76-5 mequinol</b>		
Oral	LD50	1,630 mg/kg (ATE) 1,630 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **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 respiratory irritation.
- **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.

· **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information**

· **12.1 Toxicity**

- **Aquatic toxicity:**

**80-62-6 methyl methacrylate**

EC50/21d	49 mg/L (daphnia) (OECD 211)
EC50/48h	69 mg/l (daphnia) (EPA OTS 797.1300)
NOEC / 21d	37 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	>110 mg/l (algae) (OECD 201)
NOEC / 72h	110 mg/l (algae) (OECD 201)
NOEC / 48h	48 mg/l (daphnia) (EPA OTS 797.1300)
EbC50 / 72h	>110 mg/l (algae) (OECD 201)
NOEC/ 35d	9.4 mg/L (fish) (OECD 210)
LC50/ 35d	33.7 mg/L (fish) (OECD 210)

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**868-77-9 2-hydroxyethyl methacrylate**

EC50/21d	90.1 mg/L (daphnia) (OECD 211)
EC50/48h	380 mg/l (daphnia) (OECD 202)
LC50/96h	>100 mg/l (fish) (OECD 203)
NOEC / 21d	24.1 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	836 mg/l (algae) (OECD 201)
NOEC / 72h	400 mg/l (algae) (OECD 201)
NOEC / 48h	171 mg/l (daphnia) (OECD 202)
EbC50 / 72h	345 mg/l (algae) (OECD 201)

**79-39-0 methacrylamide**

EC50/21d	>100 mg/L (daphnia) (OECD 211)
EC50/48h	>1,000 mg/l (daphnia) (OECD 202)
LC50/96h	>100 mg/l (fish) (OECD 203)
NOEC / 21d	>100 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	>1,000 mg/l (algae) (OECD 201)
NOEC / 72h	1,000 mg/l (algae) (OECD 201)
NOEC / 48h	>1,000 mg/l (daphnia) (OECD 202)

**3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol**

EC50/48h	48 mg/l (daphnia) (OECD 202)
LC50/96h	>100 mg/l (fish) (OECD 203)
ErC50 / 72 h	>100 mg/l (algae) (OECD 201)
NOEC / 72h	100 mg/l (algae) (OECD 201)

**150-76-5 mequinol**

EC50/72h	19 mg/l (algae) (OECD 201)
EC50/21d	1.42 mg/L (daphnia) (OECD 211)
EC50/48h	3 mg/l (daphnia) (OECD 202)
LC50/96h	28.5 mg/l (fish) (OECD 203)
NOEC / 21d	0.68 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	54.7 mg/l (algae) (OECD 201)
NOEC / 48h	1.32 mg/l (daphnia) (OECD 202)

**12.2 Persistence and degradability**

**80-62-6 methyl methacrylate**

Biodegradation 94 % /14d (not defined) (OECD 301C)

**868-77-9 2-hydroxyethyl methacrylate**

Biodegradation 92-100 % /14d (not defined) (OECD 301C)

**79-39-0 methacrylamide**

Biodegradation 97 % /28d (not defined) (OECD 301 E)

**3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol**

Biodegradation 1.5 % /29d (not defined) (OECD 301D)

**150-76-5 mequinol**

Biodegradation 99 % /28d (not defined) (OECD 301C)

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

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- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**


- **13.1 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.  
Non contaminated packagings can be used for recycling.

**SECTION 14: Transport information**

- **14.1 UN number or ID number**
  - **ADR, IMDG, IATA** UN1247
- **14.2 UN proper shipping name**
  - **ADR** 1247 METHYL METHACRYLATE MONOMER, STABILIZED solution
  - **IMDG, IATA** METHYL METHACRYLATE MONOMER, STABILIZED solution
- **14.3 Transport hazard class(es)**
  - **ADR**



    - **Class** 3 (F1) Flammable liquids.
    - **Label** 3
  - **IMDG, IATA**



    - **Class** 3 Flammable liquids.
    - **Label** 3
- **14.4 Packing group**
  - **ADR, IMDG, IATA** II
- **14.5 Environmental hazards:**
  - **Marine pollutant:** No
- **14.6 Special precautions for user**
  - **Warning:** Flammable liquids.
  - **Kemler Number:** 33

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· <b>EMS Number:</b>	F-E,S-D
· <b>Stowage Category</b>	B
· <b>Stowage Code</b>	SW2 Clear of living quarters.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	-
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1247 METHYL METHACRYLATE MONOMER, STABILIZED SOLUTION, 3, II

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Directive 2012/18/EU**
    - **Named dangerous substances - ANNEX I** None of the ingredients is listed.
    - **Seveso category P5c** FLAMMABLE LIQUIDS
    - **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t
    - **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t
  - **Information about limitation of use:**
    - Employment restrictions concerning young persons must be observed.
    - Employment restrictions concerning pregnant and lactating women must be observed.
- **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**
  - H225 Highly flammable liquid and vapour.
  - H302 Harmful if swallowed.
  - H315 Causes skin irritation.
  - H317 May cause an allergic skin reaction.
  - H318 Causes serious eye damage.

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*H319 Causes serious eye irritation.*

*H335 May cause respiratory irritation.*

*H371 May cause damage to organs.*

*H373 May cause damage to organs through prolonged or repeated exposure.*

*H412 Harmful to aquatic life with long lasting effects.*

**Abbreviations and acronyms:**

SADT: Self Accelerating Decomposition Temperature

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

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 (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 2: Specific target organ toxicity (single exposure) – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

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

**Sources**

(EC) 1272/2008: classification, labelling and packaging of substances and mixtures

(EC) 1907/2006: UK REACH

ADR/RID/ADN - IMDG - IATA: transport of dangerous goods by road, rail, inland waterway, with maritime vessels and for the air transport

**\* Data compared to the previous version altered.**

**Safety data sheet**  
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Printing date 19.05.2022



Version number 7

Revision: 19.05.2022

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

- **1.1 Product identifier**
  - Trade name: **Technovit 6091 Accelerator**
- **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 Accelerator
- **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
Kulzer GmbH  
Leipziger Straße 2, 63450 Hanau (Germany)  
Tel.: +49 (0)6181 9689-2570 (Wehrheim)
  - **Informing department:** email: [technik.wehrheim@kulzer-dental.com](mailto:technik.wehrheim@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**  
Eye Dam. 1            H318 Causes serious eye damage.  
Skin Sens. 1        H317 May cause an allergic skin reaction.  
STOT SE 3            H335 May cause respiratory irritation.  
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 GB CLP regulation.
    - **Hazard pictograms**  

  
 GHS05   GHS07
    - **Signal word** Danger
    - **Hazard-determining components of labelling:**  
ethylenglycoldimethacrylate  
2,2'-[(4-methylphenyl)imino]bisethanol  
triethylen glycol dimethacrylate  
2,2-bis(acryloyloxymethyl)butyl acrylate
    - **Hazard statements**  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
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.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
  
P310                    Immediately call a POISON CENTER/doctor.  
P362+P364            Take off contaminated clothing and wash it before reuse.  
P405                    Store locked up.
- **2.3 Other hazards -**

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· **Results of PBT and vPvB assessment**

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- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

· **3.2 Mixtures**

· **Description:** -

· **Dangerous components:**

CAS: 97-90-5 EINECS: 202-617-2	ethylenglycoldimethacrylate Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limit: STOT SE 3; H335: C ≥ 10%	50-75%
CAS: 3077-12-1 EINECS: 221-359-1 Reg.nr.: 01-2120791684-40-xxxx	2,2'-[(4-methylphenyl)imino]bisethanol Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Sens. 1, H317 Aquatic Chronic 3, H412 ATE: LD50 oral: 959 mg/kg	≥10-<25%
CAS: 109-16-0 EINECS: 203-652-6 Reg.nr.: 01-2119969287-21-xxxx	triethylen glycol dimethacrylate Skin Sens. 1B, H317	5-10%
CAS: 15625-89-5 EINECS: 239-701-3 Reg.nr.: 01-2119489896-xxxx	2,2-bis(acryloyloxymethyl)butyl acrylate Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	≥1-<2.5%

- **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**

· **General information**

Instantly remove any clothing soiled by the product.

Personal protection for the First Aider.

Take affected persons into the open air.

· **After inhalation**

Supply fresh air or oxygen; call for doctor.

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

· **After skin contact**

Instantly wash with water and soap and rinse thoroughly.

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

· **After eye contact**

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

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

Use eye protection.

· **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**

Allergic reactions

Breathing difficulty

Coughing

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- **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** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
  - **For safety reasons unsuitable extinguishing agents** Water.
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.  
Can be released in case of fire  
Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide (CO)  
Nitrogen oxides (NO<sub>x</sub>)
- **5.3 Advice for firefighters**
  - **Protective equipment:**  
Wear self-contained breathing apparatus.  
(EN 133)
  - **Additional information**  
Cool endangered containers with water spray jet.  
Collect contaminated fire fighting water separately. It must not enter drains.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Keep away from ignition sources  
Do not breathe vapor / mist / gas.  
Avoid contact with eyes and skin.
- **6.2 Environmental precautions:**  
Do not allow to enter drainage system, surface or ground water.  
Keep dirty washing water for appropriate disposal.
- **6.3 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 containers.  
Dispose of contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
See Section 8 for information on personal protection equipment.  
See Section 7 for information on safe handling

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Keep containers tightly sealed.  
Do not breathe vapor / mist / gas.  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Avoid contact with eyes and skin.
- **Information about protection against explosions and fires:**  
Fumes can combine with air to form an explosive mixture.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

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· **Handling**

do not mix with  
 organic peroxides  
 Radical initiator  
 reducing agent  
 Strong bases  
 Strong oxidizers  
 Strong acids  
 Water.  
 amine

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and containers:**

Store in cool, dry place in tightly closed containers.  
 store locked up

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Protect from heat and direct sunlight.

Store cool (not above 25 °C).

Protect from humidity and keep away from water.

· **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**

**97-90-5 ethylenglycoldimethacrylate**

Oral	general population, long term, systemic	0.83 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	1.3 mg/Kg/d (not defined)
	general population, long term, systemic	0.83 mg/Kg/d (not defined)
Inhalative	worker professional, long term, systemic	2.45 mg/m3 (not defined)
	general population, long term, systemic	1.45 mg/m3 (not defined)

**3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol**

Oral	general population, long term, systemic	0.16 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	0.47 mg/Kg/d (not defined)
	general population, long term, systemic	0.17 mg/Kg/d (not defined)
Inhalative	worker industrial, long term, systemic	3.29 mg/m3 (not defined)
	general population, long term, systemic	0.58 mg/m3 (not defined)

**109-16-0 triethylen glycol dimethacrylate**

Oral	general population, long term, systemic	8.33 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	13.9 mg/Kg/d (not defined)
	general population, long term, systemic	8.33 mg/Kg/d (not defined)
Inhalative	worker industrial, long term, systemic	48.5 mg/m3 (not defined)
	general population, long term, systemic	14.5 mg/m3 (not defined)

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**15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate**

Dermal	worker industrial, long term, systemic	404 mg/Kg/d (not defined)
Inhalative	worker industrial, long term, systemic	17.1 mg/m3 (not defined)

**· PNECs**
**97-90-5 ethylenglycoldimethacrylate**

freshwater	0.139 mg/l (not defined)
marine water	0.014 mg/l (not defined)
sewage treatment plant	57 mg/l (not defined)
sediment, dry weight, freshwater	1.6 mg/Kg (not defined)
sediment, dry weight, marine water	0.16 mg/Kg (not defined)
soil, dry weight	0.239 mg/Kg (not defined)

**3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol**

freshwater	0.026 mg/l (not defined)
marine water	0.003 mg/l (not defined)
sewage treatment plant	10 mg/l (not defined)
sediment, dry weight, freshwater	0.121 mg/Kg (not defined)
sediment, dry weight, marine water	0.012 mg/Kg (not defined)
soil, dry weight	0.009 mg/Kg (not defined)

**109-16-0 triethylen glycol dimethacrylate**

freshwater	0.016 mg/l (not defined)
marine water	0.002 mg/l (not defined)
sewage treatment plant	1.7 mg/l (not defined)
sediment, dry weight, freshwater	0.185 mg/Kg (not defined)
sediment, dry weight, marine water	0.018 mg/Kg (not defined)
soil, dry weight	0.027 mg/Kg (not defined)

**15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate**

freshwater	0.00087 mg/l (not defined)
marine water	0.000087 mg/l (not defined)
sewage treatment plant	6.25 mg/l (not defined)
sediment, dry weight, freshwater	0.017 mg/Kg (not defined)
sediment, dry weight, marine water	0.002 mg/Kg (not defined)
soil, dry weight	0.003 mg/Kg (not defined)

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

**· 8.2 Exposure controls**

- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as personal protective equipment**
  - **General protective and hygienic measures**
    - Keep away from foodstuffs, beverages and food.
    - Do not eat or drink while working.
    - Instantly remove any soiled and impregnated garments.
    - Avoid contact with the eyes and skin.
    - Do not inhale gases / fumes / aerosols.
    - Wash hands during breaks and at the end of the work.
  - **Breathing equipment:**
    - Use breathing protection in case of insufficient ventilation.
    - Filter A/P2.

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· **Hand protection**

*If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.*

*Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.*

*chemical protection gloves are suitable, which are tested according to EN 374*

*Check protective gloves prior to each use for their proper condition.*

*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*

· **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.*

*NBR: acrylonitrile-butadiene rubber (0,11 mm)*

· **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.*

*>30 min*

· **Eye/face protection** eye protection (EN 166)

· **Body protection:** Light weight protective clothing

· **Environmental exposure controls**

*Do not allow to enter the ground/soil.*

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

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Fluid

· **Colour:**

Colourless

· **Smell:**

Amine-like

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Not determined

· **Boiling point or initial boiling point and boiling range**

>150 °C (25322-68-3 polyethylene glycol)

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

104 °C (97-90-5 ethylenglycoldimethacrylate)

· **Ignition temperature:**

255 °C (109-16-0 triethylen glycol dimethacrylate)

· **Decomposition temperature:**

Not determined.

· **SADT**

· **pH**

Not determined.

· **Viscosity:**

· **Kinematic viscosity**

Not determined.

· **dynamic:**

Not determined.

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<ul style="list-style-type: none"> <li>· <b>Solubility</b></li> <li>· <b>Water:</b> Not miscible or difficult to mix</li> <li>· <b>Partition coefficient n-octanol/water (log value)</b> Not determined.</li> <li>· <b>Steam pressure at 20 °C:</b> 0 hPa</li> <li>· <b>Density and/or relative density</b></li> <li>· <b>Density at 20 °C</b> 1.075 g/cm<sup>3</sup></li> <li>· <b>Relative density</b> Not determined.</li> <li>· <b>Vapour density</b> Not determined.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>9.2 Other information</b> No further relevant information available.</li> <li>· <b>Appearance:</b></li> <li>· <b>Form:</b> Fluid</li> <li>· <b>Important information on protection of health and environment, and on safety.</b></li> <li>· <b>Self-inflammability:</b> Product is not selfigniting.</li> <li>· <b>Explosive properties:</b> Product is not explosive.</li> <li>· <b>Solvent content:</b></li> <li>· <b>VOC EU</b> g/l</li> <li>· <b>Change in condition</b></li> <li>· <b>Evaporation rate</b> Not determined.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Information with regard to physical hazard classes</b></li> <li>· <b>Explosives</b> Void</li> <li>· <b>Flammable gases</b> Void</li> <li>· <b>Aerosols</b> Void</li> <li>· <b>Oxidising gases</b> Void</li> <li>· <b>Gases under pressure</b> Void</li> <li>· <b>Flammable liquids</b> Void</li> <li>· <b>Flammable solids</b> Void</li> <li>· <b>Self-reactive substances and mixtures</b> Void</li> <li>· <b>Pyrophoric liquids</b> Void</li> <li>· <b>Pyrophoric solids</b> Void</li> <li>· <b>Self-heating substances and mixtures</b> Void</li> <li>· <b>Substances and mixtures, which emit flammable gases in contact with water</b> Void</li> <li>· <b>Oxidising liquids</b> Void</li> <li>· <b>Oxidising solids</b> Void</li> <li>· <b>Organic peroxides</b> Void</li> <li>· <b>Corrosive to metals</b> Void</li> <li>· <b>Desensitised explosives</b> Void</li> </ul>	

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Exothermic polymerisation
- **10.4 Conditions to avoid**  
Heat, flames and sparks.  
moisture exposure
- **10.5 Incompatible materials:**  
Strong oxidizers  
reducing agent

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Strong bases  
Strong acids  
amine  
organic peroxides  
Radical initiator

· **10.6 Hazardous decomposition products:** None

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**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
  - **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**

**97-90-5 ethylenglycoldimethacrylate**

Oral	LD50	8,300 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)

**3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol**

Oral	LD50	959 mg/kg (ATE) 959 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)

**109-16-0 triethylen glycol dimethacrylate**

Oral	LD50	8,300 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (mouse)

**15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate**

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	5,170 mg/kg (rabbit)
Inhalative	LC50/6h	>0.55 mg/l (rat)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **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 respiratory irritation.
- **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.

- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information**

- **12.1 Toxicity**

· **Aquatic toxicity:**

**97-90-5 ethylenglycoldimethacrylate**

EC50/48h	44.9 mg/l (daphnia) (OECD 202)
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LC50/96h	15.95 mg/l (fish) (OECD 203)
NOEC / 21d	5.05 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	19 mg/l (algae) (OECD 201)
NOEC / 72h	0.804 mg/l (algae) (OECD 201)
NOEC / 48h	13.2 mg/l (daphnia) (OECD 202)
EbC50 / 72h	10.1 mg/l (algae) (OECD 201)
<b>3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol</b>	
EC50/48h	48 mg/l (daphnia) (OECD 202)
LC50/96h	>100 mg/l (fish) (OECD 203)
ErC50 / 72 h	>100 mg/l (algae) (OECD 201)
NOEC / 72h	100 mg/l (algae) (OECD 201)
<b>109-16-0 triethylen glycol dimethacrylate</b>	
EC50/21d	51.9 mg/L (daphnia) (OECD 211)
LC50/96h	16.4 mg/l (fish) (OECD 203)
NOEC / 21d	32 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	>100 mg/l (algae) (OECD 201)
NOEC / 72h	18.6 mg/l (algae) (OECD 201)
EbC50 / 72h	72.8 mg/l (algae) (OECD 201)
<b>15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate</b>	
LC50/96h	0.87 mg/l (fish) (OECD 203)
ErC50 / 72 h	18.8 mg/l (algae) (EU C.3)
NOEC / 96h	0.89 mg/l (fish) (OECD 203)
EbC50 / 72h	7.2 mg/l (algae) (EU C.3)
LC50/48h	19.9 mg/L (daphnia) (EU C2.)

**12.2 Persistence and degradability**

<b>97-90-5 ethylenglycoldimethacrylate</b>	
Biodegradation	71.2 % /28d (not defined) (OECD 301D)
<b>3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol</b>	
Biodegradation	1.5 % /29d (not defined) (OECD 301D)
<b>109-16-0 triethylen glycol dimethacrylate</b>	
Biodegradation	85 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)
<b>15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate</b>	
Biodegradation	82-90 % /28d (not defined) (OECD 301D)

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

Do not allow product to reach ground water, water bodies or sewage system.

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Danger to drinking water if even small quantities leak into soil.

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**SECTION 13: Disposal considerations**

· **13.1 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.

**SECTION 14: Transport information**

· **14.1 UN number or ID number**

· **ADR, IMDG, IATA**

UN3532

· **14.2 UN proper shipping name**

· **ADR**

3532 POLYMERIZING SUBSTANCE, LIQUID, STABILIZED, N.O.S.

· **IMDG, IATA**

POLYMERIZING SUBSTANCE, LIQUID, STABILIZED, N.O.S. (ethylenglycoldimethacrylate, triethylen glycol dimethacrylate)

· **14.3 Transport hazard class(es)**

· **ADR**



· **Class**

4.1 (PM1) Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives

· **Label**

4.1

· **IMDG, IATA**



· **Class**

4.1 Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives

· **Label**

4.1

· **14.4 Packing group**

· **ADR, IMDG, IATA**

III

· **14.5 Environmental hazards:**

· **Marine pollutant:**

No

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<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Kemler Number:</b> 40</li> <li>· <b>EMS Number:</b> F-J,S-G</li> <li>· <b>Stowage Category:</b> D</li> <li>· <b>Stowage Code:</b> SW1 Protected from sources of heat.</li> <li>· <b>Segregation Code:</b> SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.</li> </ul>	<p><i>Warning: Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives</i></p>
<ul style="list-style-type: none"> <li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b></li> </ul>	<p>Not applicable.</p>
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b> -</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Limited quantities (LQ):</b> 0</li> <li>· <b>Excepted quantities (EQ):</b> Code: E0 Not permitted as Excepted Quantity</li> <li>· <b>Transport category:</b> 2</li> <li>· <b>Tunnel restriction code:</b> D</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ):</b> 0</li> <li>· <b>Excepted quantities (EQ):</b> Code: E0 Not permitted as Excepted Quantity</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	<p>UN 3532 POLYMERIZING SUBSTANCE, LIQUID, STABILIZED, N.O.S., 4.1, III</p>

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Directive 2012/18/EU**
    - **Named dangerous substances - ANNEX I** None of the ingredients is listed.
  - **Information about limitation of use:**
    - Employment restrictions concerning young persons must be observed.
    - Employment restrictions concerning pregnant and lactating women must be observed.
- **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**
  - H302 Harmful if swallowed.
  - H315 Causes skin irritation.
  - H317 May cause an allergic skin reaction.
  - H318 Causes serious eye damage.
  - H319 Causes serious eye irritation.
  - H335 May cause respiratory irritation.
  - H400 Very toxic to aquatic life.
  - H410 Very toxic to aquatic life with long lasting effects.

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*H412 Harmful to aquatic life with long lasting effects.*

· **Abbreviations and acronyms:**

SADT: Self Accelerating Decomposition Temperature

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

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)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)

DNEL: Derived No-Effect Level (GB REACH)

PNEC: Predicted No-Effect Concentration (GB REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

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

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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

· **Sources**

(EC) 1272/2008: classification, labelling and packaging of substances and mixtures

(EC) 1907/2006: GB REACH

ADR/RID/ADN - IMDG - IATA: transport of dangerous goods by road, rail, inland waterway, with maritime vessels and for the air transport

· **\* Data compared to the previous version altered.**

GB