

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

Printing date 06.05.2021

Version number 6

Revision: 06.05.2021

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

· **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 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(acryloyloxyethyl)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**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

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

· **3.2 Chemical characterisation: 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	≥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(acryloyloxyethyl)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.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
 - Suitable extinguishing agents CO₂, 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 (CO₂)
Carbon monoxide (CO)
Nitrogen oxides (NO_x)
- **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.
- **Handling**
do not mix with
organic peroxides
Radical initiator

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reducing agent

Strong bases

Strong oxidizers

Strong acids

Water.

amine

· **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.

· **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**

· **Additional information about design of technical systems:** No further data; see item 7.

· **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	ge.pop., I.te, syst.	0.83 mg/Kg (nd)
Dermal	worker industr., I.te., syst.	1.3 mg/Kg/d (nd)
	ge.pop., I.te, syst.	0.83 mg/Kg/d (nd)
Inhalative	worker profess., I.te., syst.	2.45 mg/m ³ (nd)
	ge.pop., I.te, syst.	1.45 mg/m ³ (nd)

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

Oral	ge.pop., I.te, syst.	0.16 mg/Kg (nd)
Dermal	worker industr., I.te., syst.	0.47 mg/Kg/d (nd)
	ge.pop., I.te, syst.	0.17 mg/Kg/d (nd)
Inhalative	worker industr., I.te., syst.	3.29 mg/m ³ (nd)
	ge.pop., I.te, syst.	0.58 mg/m ³ (nd)

109-16-0 triethylen glycol dimethacrylate

Oral	ge.pop., I.te, syst.	8.33 mg/Kg (nd)
Dermal	worker industr., I.te., syst.	13.9 mg/Kg/d (nd)
	ge.pop., I.te, syst.	8.33 mg/Kg/d (nd)
Inhalative	worker industr., I.te., syst.	48.5 mg/m ³ (nd)

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	ge.pop., l.te, syst.	14.5 mg/m ³ (nd)
15625-89-5 2,2-bis(acryloyloxyethyl)butyl acrylate		
Oral	ge.pop., l.te, syst.	0.5 mg/Kg (nd)
Dermal	worker industr., l.te., syst.	83 mg/Kg/d (nd)
	ge.pop., l.te, syst.	42 mg/Kg/d (nd)
Inhalative	worker industr., l.te., syst.	3.5 mg/m ³ (nd)
	ge.pop., l.te, syst.	0.87 mg/m ³ (nd)
· PNECs		
97-90-5 ethylenglycoldimethacrylate		
freshwater	0.139 mg/l (nd)	
marine water	0.014 mg/l (nd)	
STP	57 mg/l (nd)	
sedim., dw, fre.wat.	1.6 mg/Kg (nd)	
sedim., dw, mar.wat.	0.16 mg/Kg (nd)	
soil,dw	0.239 mg/Kg (nd)	
3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol		
freshwater	0.026 mg/l (nd)	
marine water	0.003 mg/l (nd)	
STP	10 mg/l (nd)	
sedim., dw, fre.wat.	0.121 mg/Kg (nd)	
sedim., dw, mar.wat.	0.012 mg/Kg (nd)	
soil,dw	0.009 mg/Kg (nd)	
109-16-0 triethylen glycol dimethacrylate		
freshwater	0.016 mg/l (nd)	
marine water	0.002 mg/l (nd)	
STP	1.7 mg/l (nd)	
sedim., dw, fre.wat.	0.185 mg/Kg (nd)	
sedim., dw, mar.wat.	0.018 mg/Kg (nd)	
soil,dw	0.027 mg/Kg (nd)	
15625-89-5 2,2-bis(acryloyloxyethyl)butyl acrylate		
freshwater	0.00087 mg/l (nd)	
marine water	0.000087 mg/l (nd)	
STP	6.25 mg/l (nd)	
sedim., dw, fre.wat.	0.017 mg/Kg (nd)	
sedim., dw, mar.wat.	0.002 mg/Kg (nd)	
soil,dw	0.003 mg/Kg (nd)	

· 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

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.

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

· **Breathing equipment:**

Use breathing protection in case of insufficient ventilation.

Filter A/P2.

· **Protection of hands:**

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 protection: eye protection (EN 166)**

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

· **Limitation and supervision of exposure into the environment**

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**

· **Appearance:**

· **Form:**

Fluid

· **Colour:**

Colourless

· **Smell:**

Amine-like

· **Odour threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Change in condition**

· **Melting point/freezing point:** Not determined

· **Initial boiling point and boiling range:** Not determined

· **Flash point:**

>60 °C

· **Inflammability (solid, gaseous)**

Not applicable.

· **Decomposition temperature:**

Not determined.

· **Self-inflammability:**

Product is not selfigniting.

· **Explosive properties:**

Product is not explosive.

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· Critical values for explosion:	
· Lower:	Not determined.
· Upper:	Not determined.
· Steam pressure:	Not determined.
· Density at 20 °C	1.075 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· Water:	Not miscible or difficult to mix
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
· dynamic:	Not determined.
· kinematic:	Not determined.
· Solvent content:	
· VOC EU	g/l
· 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** 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
Strong bases
Strong acids
amine
organic peroxides
Radical initiator
- **10.6 Hazardous decomposition products:** None

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **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	8,700 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 (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)

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

· **Primary irritant effect:**

- **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.

· **Additional toxicological information:**

- **CMR effects (carcinogenicity, 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 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.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

97-90-5 ethylenglycoldimethacrylate	
EC50/48h	44.9 mg/l (daphnia) (OECD 202)
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)
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)
109-16-0 triethylen glycol dimethacrylate	
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)

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15625-89-5 2,2-bis(acryloyloxyethyl)butyl acrylate	
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	
97-90-5 ethylenglycoldimethacrylate	
Biodegradation	71.2 % /28d (nd) (OECD 301D)
3077-12-1 2,2'-(4-methylphenyl)imino]bisethanol	
Biodegradation	1.5 % /29d (nd) (OECD 301D)
109-16-0 triethylen glycol dimethacrylate	
Biodegradation	85 % /28d (nd) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)
15625-89-5 2,2-bis(acryloyloxyethyl)butyl acrylate	
Biodegradation	82-90 % /28d (nd) (OECD 301D)

· **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**

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**· **ADR, IMDG, IATA**

UN3532

· **14.2 UN proper shipping name**· **ADR**3532 POLYMERIZING SUBSTANCE, LIQUID,
STABILIZED, N.O.S.
POLYMERIZING SUBSTANCE, LIQUID,
STABILIZED, N.O.S.· **IMDG, IATA**

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· 14.3 Transport hazard class(es)

· ADR



· Class

4.1 (PM1) Flammable solids, self-reactive substances and solid desensitised explosives.

4.1

· Label

· IMDG, IATA



· Class

4.1 Flammable solids, self-reactive substances and solid desensitised explosives.

4.1

· Label

· 14.4 Packing group

· ADR, IMDG, IATA

III

· 14.5 Environmental hazards:

· Marine pollutant:

No

· 14.6 Special precautions for user

· Kemler Number:

Warning: Flammable solids, self-reactive substances and solid desensitised explosives.

40

F-J,S-G

D

SW1 Protected from sources of heat.

SG35 Stow "separated from" SGG1-acids

SG36 Stow "separated from" SGG18-alkalis.

· 14.7 Transport in bulk according to Annex II of

Marpol and the IBC Code

Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ)

0

Code: E0

Not permitted as Excepted Quantity

· Excepted quantities (EQ)

2

D

· Transport category

· Tunnel restriction code

· IMDG

· Limited quantities (LQ)

0

Code: E0

Not permitted as Excepted Quantity

· Excepted quantities (EQ)

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· UN "Model Regulation":	UN 3532 POLYMERIZING SUBSTANCE, LIQUID, STABILIZED, N.O.S., 4.1, III
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*** 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.
 - National regulations
 - 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.
- H412 Harmful to aquatic life with long lasting effects.

· **Abbreviations and acronyms:**

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- 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 (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
- 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

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· **Sources**

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

(EC) 1907/2006: 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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