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

Printing date 27.10.2022

Version number 1

Revision: 03.08.2022

undertaking		
	e: Signum universal bond I	
· 1.2 Relevant i	identified uses of the substance or mixtu	ure and uses advised against
· Applicatio	n of the substance / the mixture Dental b	oonding material
• <b>Manufactu</b> Kulzer Gml	<b>the supplier of the safety data sheet i<b>rer/Supplier:</b> bH traße 2, 63450 Hanau (Germany)</b>	Tel.: +49 (0)800 43725
Informing	department: E-Mail: msds@kulzer-dental. cy telephone number: Emergency CONTA	com
	: Hazards identification	
• <b>Classifica</b> t Flam. Liq. 2 Eye Irrit. 2	tion of the substance or mixture tion according to Regulation (EC) No 122 2 H225 Highly flammable liquid and vapour H319 Causes serious eye irritation. 3 H336 May cause drowsiness or dizziness ments	r.
The produc	according to Regulation (EC) No 1272/20 et is classified and labelled according to the pictograms	008 GB CLP regulation.
GHS02		
-	word Danger	
acetone • <b>Hazard</b> H225 H H319 C H336 M	<b>statements</b> ighly flammable liquid and vapour. auses serious eye irritation. lay cause drowsiness or dizziness. <b>tionary statements</b>	s, sparks, open flames and other ignit
P261 P280	sources. No smoking. Avoid breathing dust/fume/gas/mist/va Wear protective gloves / eye protection 2313 If eye irritation persists: Get medical ad	pours/spray. n.
Results of PBT: N	Tender <b>PBT and vPvB assessment</b> ot applicable. Not applicable.	



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<ul> <li>Description: -</li> </ul>		
Dangerous components:		
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-xxxx	acetone Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 EUH066	>90
CAS: 85590-00-7 EC number: 874-929-2	10-(Phosphonooxy)decyl methacrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	0-59
CAS: 64-19-7 EINECS: 200-580-7 Reg.nr.: 01-2119475328-30- XXXX	acetic acid Flam. Liq. 3, H226 Skin Corr. 1A, H314; Eye Dam. 1, H318 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 90 % Skin Corr. 1B; H314: 25 % ≤ C < 90 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	0-59
SECTION 4: First aid mea		
<ul> <li>4.1 Description of first aid mea</li> </ul>		
<ul> <li>After inhalation Supply fresh</li> <li>After skin contact</li> <li>Instantly wash with water and If skin irritation continues, con</li> <li>After eye contact</li> <li>Rinse opened eye for several</li> <li>After swallowing</li> <li>Rinse out mouth and then drin In case of persistent symptom</li> <li>4.2 Most important symptoms</li> <li>No further relevant information a</li> </ul>	n air; consult doctor in case of symptoms. I soap and rinse thoroughly. I sult a doctor. I minutes under running water. Then consult doctor. Ink plenty of water. Ins consult doctor. <b>and effects, both acute and delayed</b>	
<ul> <li>After inhalation Supply fresh</li> <li>After skin contact</li> <li>Instantly wash with water and If skin irritation continues, con</li> <li>After eye contact</li> <li>Rinse opened eye for several</li> <li>After swallowing</li> <li>Rinse out mouth and then drin In case of persistent symptom</li> <li>4.2 Most important symptoms</li> <li>No further relevant information a</li> </ul>	n air; consult doctor in case of symptoms. I soap and rinse thoroughly. Insult a doctor. I minutes under running water. Then consult doctor. In plenty of water. Ins consult doctor. <b>and effects, both acute and delayed</b> vailable. <b>e medical attention and special treatment needed</b> vailable.	

**Protective equipment:** Wear self-contained breathing apparatus.

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#### Trade name: Signum universal bond I

#### Wear full protective suit.

• Additional information Cool endangered containers with water spray jet.

#### SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Avoid contact with eyes and skin. Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Prevent material from reaching sewage system, holes and cellars.
- **6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).
- Ensure adequate ventilation.

Send for recovery or disposal in suitable containers.

- 6.4 Reference to other sections
- See Section 7 for information on safe handling
- See Section 8 for information on personal protection equipment.
- See Section 13 for information on disposal.
- -

#### SECTION 7: Handling and storage

·7.1 Precautions for safe handling

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about protection against explosions and fires:
- Keep ignition sources away Do not smoke.

Protect against electrostatic charges.

• 7.2 Conditions for safe storage, including any incompatibilities

<sup>.</sup> Storage

- Requirements to be met by storerooms and containers:
- Dry place, storage temperature <25 ° C
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store container in a well ventilated position.

• 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:

	-	-		~	•				-	•••	-	•••	1
67	6	A	4	~	~	~ 4	-	-	~				

07-04-1 acelone	
WEL (Great Britain)	Short-term value: 3620 mg/m³, 1500 ppm
	Long-term value: 1210 mg/m³, 500 ppm
IOELV (European Union)	Long-term value: 1210 mg/m³, 500 ppm
64-19-7 acetic acid	
WEL (Great Britain)	Short-term value: 50 mg/m³, 20 ppm Long-term value: 25 mg/m³, 10 ppm
IOELV (European Union)	Short-term value: 50 mg/m³, 20 ppm Long-term value: 25 mg/m³, 10 ppm
	Long-term value: 25 mg/m <sup>3</sup> , 10 ppm
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· DNI	ELs		(Contd. of page	
67-64-1 ad	cetone			
Oral	general population, long	term, systemic	62 mg/Kg (not defined)	
Dermal	worker industrial, long term, systemic		186 mg/Kg/d (not defined)	
	general population, long term, systemic 62 mg/Kg/d (not define		62 mg/Kg/d (not defined)	
Inhalative				
	worker industrial, long te	•	2,420 mg/m3 (not defined)	
	general population, long		, ,	
· PNI	• • • •			
67-64-1 ad				
		10 6 max// (mat	( defined)	
freshwater		10.6 mg/l (not	,	
marine wa		1.06 mg/l (rabi		
-	eatment plant	19.5 mg/l (not	,	
	dry weight, freshwater	30.4 mg/Kg (n		
	dry weight, marine water		,	
soil, dry w	•	0.112 mg/Kg (	, ,	
· Add	litional information: The	e lists that were	e valid during the compilation were used as basis.	
Filte Not prot • <b>Har</b> The	ective mask (filter A). I <b>d protection</b> I glove material has to be		. If exposition to vapours is possible, use breathi e and resistant to the product/ the substance/ t	
Sele	paration. Ection of the glove materia degradation	al on considera	ation of the penetration times, rates of diffusion a	
Che reco	eck protective gloves prior commended	to each use fo	or their proper condition.	
<ul> <li>Material of gloves         The selection of the suitable gloves does not only depend on the material, but also or         further marks of quality and varies from manufacturer to manufacturer. As the product is         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.     </li> <li>Penetration time of glove material         The exact break trough time has to be found out by the manufacturer of the protective     </li> </ul>				
	gloves and has to be obse		-	
E	For the permanent contant materials are suitable: Butyl rubber, BR		num of 15 minutes gloves made of the followi	
E I	For the permanent contant rest of the permanent contant of the permanen	act of a maxim		

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#### Trade name: Signum universal bond I

• **Body protection:** Protective work clothing. (Contd. of page 4)

Light weight protective clothing SECTION 9: Physical and chemical properties · 9.1 Information on basic physical and chemical properties **General Information** Fluid Physical state · Colour: Colourless · Smell: Acetone-like Odour threshold: Not determined. • Melting point/freezing point: Not determined · Boiling point or initial boiling point and boiling range 55.8-56.6 °C (67-64-1 acetone) · Flammability Not applicable. · Lower and upper explosion limit · Lower: 2.6 Vol % · Upper: 13 Vol % <-18 °C · Flash point: · Decomposition temperature: Not determined. SADT 5-6 pH at 20 °C Viscosity: Kinematic viscosity Not determined. Not determined. dynamic: · Solubility Not miscible or difficult to mix Water: · Partition coefficient n-octanol/water (log Not determined. value) Steam pressure at 20 °C: 247 hPa · Density and/or relative density Density at 20 °C 0.8 g/cm<sup>3</sup> Not determined. Relative density · Vapour density Not determined. · 9.2 Other information No further relevant information available. Appearance: Fluid Form: · 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. · Information with regard to physical hazard classes Explosives Void · Flammable gases Void Void · Aerosols • Oxidising gases Void · Gases under pressure Void (Contd. on page 6) GB



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· Flammable liquids	Highly flammable liquid and vapour.
· Flammable solids	Void
Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
• Self-heating substances and mixtures	Void
<ul> <li>Substances and mixtures, which emit</li> </ul>	
flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
<ul> <li>Desensitised explosives</li> </ul>	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 No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available. **10.5 Incompatible materials:** No further relevant information available.
- · 10.6 Hazardous decomposition products: None Additional information: -

<sup>.</sup> Acute		hazard classes as defined in Regulation (EC) No 1272/2008 ased on available data, the classification criteria are not met.
· LD/	'LC50 valu	es that are relevant for classification:
67-64-1 a	cetone	
Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	>15,800 mg/kg (rabbit)
Inhalative	LC50/4 h	76 mg/l (rat)
64-19-7 a	cetic acid	
Oral	LD50	3,310 mg/kg (rat)
Inhalative	LC50/4 h	11.4 mg/l (rat) (OECD 403)
• <b>Seriou</b> Causes • <b>Respir</b> • <b>Germ</b> (	s eye dan s serious e atory or s cell mutag ogenicity	<b>rritation</b> Based on available data, the classification criteria are not met. <b>nage/irritation</b> ye irritation. <b>kin sensitisation</b> Based on available data, the classification criteria are not m <b>renicity</b> Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. <b>xicity</b> Based on available data, the classification criteria are not met.



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### Trade name: Signum universal bond I

• Subacute to chronic toxicity: At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

#### · 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

12.1 Toxici	ν
· Aquatic	
67-64-1 ace	tone
EC50/48h	8,800 mg/l (daphnia)
LC50/96h	6,210 mg/l (fish) (OECD 203)
64-19-7 ace	tic acid
EC50/48h	>300.82 mg/l (daphnia) (OECD 202)
LC50/96h	>1,000 mg/l (fish) (OECD 203)
ErC50 / 72 I	n >1,000 mg/l (algae)
NOEC / 72h	1,000 mg/l (algae)
NOEC / 96h	1,000 mg/l (fish) (OECD 203)
12.2 Persis	tence and degradability
67-64-1 ace	tone
Biodegradat	ion 90.9 % /28d (not defined) (OECD 301D)
64-19-7 ace	tic acid
Biodegradat	ion 96 % /20d (not defined)
12.4 Mobilio 12.5 Result PBT: No vPvB: N 12.6 Endoc For informat	c <b>umulative potential</b> No further relevant information available. <b>Ay in soil</b> No further relevant information available. <b>s of PBT and vPvB assessment</b> t applicable. ot applicable. <b>rine disrupting properties</b> ion on endocrine disrupting properties see section 11. <b>adverse effects</b> No further relevant information available.
SECTION	13: Disposal considerations
<ul> <li>Recomn Must not system.</li> </ul>	<b>treatment methods</b> nendation be disposed of together with household garbage. Do not allow product to reach sewage must be made according to official regulations.
· Reco	ed packagings: mmendation: sal must be made according to official regulations.

Disposal must be made according to official regulations. Non contaminated packagings can be used for recycling.

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#### Trade name: Signum universal bond I

SECTION 14: Transport information · 14.1 UN number or ID number · ADR, IMDG, IATA UN1090 <sup>•</sup> 14.2 UN proper shipping name ADR 1090 ACETONE solution · IMDG, IATA ACETONE solution · 14.3 Transport hazard class(es) · ADR · Class 3 (F1) Flammable liquids. · Label IMDG, IATA · Class 3 Flammable liquids. · Label 3 14.4 Packing group ADR, IMDG, IATA II· 14.5 Environmental hazards: · Marine pollutant: No <sup>.</sup> 14.6 Special precautions for user Warning: Flammable liquids. 33 F-E,S-D ·Kemler Number: · EMS Number: Ε Stowage Category · 14.7 Maritime transport in bulk according to IMO instruments Not applicable. Transport/Additional information: · ADR Limited quantities (LQ) 1L Excepted quantities (ÉQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 · Transport category · Tunnel restriction code D/E · IMDG · Limited quantities (LQ) 1L Excepted quantities (ÉQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: (Contd. on page 9) GB



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· UN "Model Regulation":

500 ml

UN 1090 ACETONE 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
- 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** 

- Highly flammable liquid and vapour. H225
- H226 Flammable liquid and vapour.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

#### 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 GHS: Globally Harmonised System of Classification and Labelling of Chemical 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 VPVP: Very Persistent and Very Bioaccumulative vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Skin Corr. 1A: Skin corrosion/irritation - Category 1A 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 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

\* 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: Signum universal bond II
<ul> <li>1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.</li> </ul>
<ul> <li>Application of the substance / the mixture Dental bonding material</li> </ul>
• <b>1.3 Details of the supplier of the safety data sheet</b> • <b>Manufacturer/Supplier:</b> Kulzer GmbH Leipziger Straße 2, 63450 Hanau (Germany) Tel.: +49 (0)800 4372522
<ul> <li>Informing department: E-Mail: msds@kulzer-dental.com</li> <li>1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463</li> </ul>
SECTION 2: Hazards identification
· 2.1 Classification of the substance or mixture
<ul> <li>Classification according to Regulation (EC) No 1272/2008</li> </ul>
Flam. Liq. 2 H225 Highly flammable liquid and vapour.
Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
<ul> <li>Labelling according to Regulation (EC) No 1272/2008         The product is classified and labelled according to the GB CLP regulation.     </li> <li>Hazard pictograms         GHS02 GHS07 GHS09     </li> </ul>
· Signal word Danger
· Hazard-determining components of labelling:
methyl methacrylate 7, 7, 9(or 7, 9, 9)-trimethyl-4, 13-dioxo-3, 14-dioxa-5, 12-diazahexadecane-1, 16-diyl bismethacrylate diphenyl(2, 4, 6-trimethylbenzoyl)phosphine oxide tert-butyl perbenzoate • Hazard statements
H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. H411 Toxic to aquatic life with long lasting effects. • <b>Precautionary statements</b>
<ul> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P261 Avoid breathing dust/fume/gas/mist/vapours/spray.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</li> </ul>
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#### Trade name: Signum universal bond II

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

3.2 Mixtures • Description: Product based of	on methacrylates	
<ul> <li>Dangerous components:</li> </ul>		
CAS: 80-62-6 EINECS: 201-297-1	methyl methacrylate Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	50-75%
CAS: 72869-86-4 EINECS: 276-957-5 Reg.nr.: 01-2120751202-68-xxxx	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12- diazahexadecane-1,16-diyl bismethacrylate Aquatic Chronic 2, H411 Skin Sens. 1B, H317 EUH204	25-50%
CAS: 75980-60-8 EINECS: 278-355-8 Reg.nr.: 01-2119972295-29-xxxx	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Repr. 2, H361f Aquatic Chronic 2, H411 Skin Sens. 1B, H317	≥2.5-<3%
CAS: 614-45-9 EINECS: 210-382-2	tert-butyl perbenzoate Org. Perox. C, H242 Aquatic Acute 1, H400 Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1, H317 Aquatic Chronic 3, H412	<i>≥</i> 0.1-<0.25%

#### SECTION 4: First aid measures

- 4.1 Description of first aid measures
  - After inhalation Supply fresh air; consult doctor in case of symptoms. • After skin contact
    - Instantly wash with water and soap and rinse thoroughly.
    - If skin irritation continues, consult a doctor.
  - After eye contact
  - Rinse opened eye for several minutes under running water. Then consult doctor.
  - After swallowing
  - Rinse out mouth and then drink plenty of water.
  - In case of persistent symptoms consult doctor.
  - Product based on methacrylates
- 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.

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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

Can form explosive gas-air mixtures.

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

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

#### SECTION 6: Accidental release measures

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

- 6.2 Environmental precautions: Prevent material from reaching sewage system, holes and cellars.
- 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).
- 6.4 Reference to other sections
- No dangerous materials are released.
- See Section 8 for information on personal protection equipment.

#### SECTION 7: Handling and storage

 7.1 Precautions for safe handling Keep containers tightly sealed.
 Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.

• 7.2 Conditions for safe storage, including any incompatibilities • Storage

- Requirements to be met by storerooms and containers:
- Dry place, storage temperature <25 ° C
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store container in a well ventilated position.
- 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 Short-term value: 416 mg/m<sup>3</sup>, 100 ppm
  - Long-term value: 208 mg/m<sup>3</sup>, 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)

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Inhalative	worker industrial, acute,	local	(Contd. of defined)	pag
	worker industrial, long te		348.4 mg/m3 (not defined)	
	worker industrial, long te	-	208 mg/m3 (not defined)	
	general population, acute		208 mg/m3 (not defined)	
			74.3 mg/m3 (not defined)	
72869-86-			p-3,14-dioxa-5,12-diazahexadecane-1,16	ò-di
	bismethacrylate	-		
Oral	general population, long	-		
Dermal	worker industrial, long te	-	1.3 mg/Kg/d (not defined)	
		•	0.7 mg/Kg/d (not defined)	
Inhalative	worker industrial, long te		3.3 mg/m3 (not defined)	
	general population, long			
	8 diphenyl(2,4,6-trimeth		-	
Oral		•	0.0833 mg/Kg (not defined)	
Dermal	worker industrial, long te	-	0.233 mg/Kg/d (not defined)	
		-	0.0833 mg/Kg/d (not defined)	
Inhalative	worker industrial, long te		0.822 mg/m3 (not defined)	
	general population, long	term, systemic	0.145 mg/m3 (not defined)	
· PNE	ECs			
80-62-6 m	ethyl methacrylate			
freshwater		0.94 mg/l (not	defined)	
marine wa	ter	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 w		1.48 mg/Kg (n		
72869-86-	4 7,7,9(or 7,9,9)-trimeti bismethacrylate	hyl-4,13-dioxo	o-3,14-dioxa-5,12-diazahexadecane-1,16	ò-di
freshwater		0.01 mg/l (not	defined)	
marine wa	ter	0.001 mg/l (no	t defined)	
sewage tre	eatment plant	3.61 mg/l (not defined)		
sediment,	dry weight, freshwater	4.56 mg/Kg (not defined)		
sediment,	dry weight, marine water	0.46 mg/Kg (n	ot defined)	
soil, dry we	eight	0.91 mg/Kg (n	ot defined)	
75980-60-	8 diphenyl(2,4,6-trimeth	ylbenzoyl)pho	osphine oxide	
freshwater		0.0014 mg/l (not defined)		
marine water		0.00014 mg/l (not defined)		
sediment,	dry weight, freshwater	0.115 mg/Kg (not defined)		
sediment, dry weight, marine water		0.0115 mg/Kg	(not defined)	
soil, dry we	eight	0.0222 mg/Kg	(not defined)	
· Add	litional information: The	lists that were	valid during the compilation were used as ba	asis
	ure controls priate engineering contr	ols No further	<i>data; see item 7.</i> (Contd. on	



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Individual protection measures, such as pe	(Contd. of page 4		
	ersonal protective equipment		
General protective and hygienic measur			
Keep away from foodstuffs, beverages and			
Instantly remove any soiled and impregnate	ed garments.		
Wash hands during breaks and at the end of	of the work.		
Avoid contact with the eyes and skin.			
Breathing equipment:			
	t. If exposition to vapours is possible, use breathing		
protective mask (filter A).			
Hand protection			
	le and resistant to the product/ the substance/ the		
preparation.	· · · · · · · · · · · · · · · · · · ·		
	ation of the penetration times, rates of diffusion and		
the degradation	degradation		
If skin contact cannot be avoided prote	ctive gloves are recommended to avoid possible		
sensitization.			
Solvent resistant gloves			
	ior thair proper condition		
Check protective gloves prior to each use f	or their proper condition.		
Material of gloves			
The selection of the suitable gloves d	loes not only depend on the material, but also or		
further marks of quality and varies from	n manufacturer to manufacturer. As the product is a		
preparation of several substances, t	the resistance of the glove material can not be		
calculated in advance and has therefore	e to be checked prior to the application.		
<ul> <li>Penetration time of glove material</li> </ul>			
	e found out by the manufacturer of the protective		
gloves and has to be observed.			
	or the permanent contact of a maximum of 15 minutes gloves made of the following		
matariais ard sillitabla'			
materials are suitable:			
Butyl rubber, BR			
Butyl rubber, BR Nitrile rubber, NBR			
Butyl rubber, BR Nitrile rubber, NBR · <b>Eye/face protection</b> Safety glasses	Jo the in a		
Butyl rubber, BR Nitrile rubber, NBR	lothing		
Butyl rubber, BR Nitrile rubber, NBR · <b>Eye/face protection</b> Safety glasses	lothing		
Butyl rubber, BR Nitrile rubber, NBR · <b>Eye/face protection</b> Safety glasses	-		
Butyl rubber, BR Nitrile rubber, NBR • <b>Eye/face protection</b> Safety glasses • <b>Body protection:</b> Light weight protective c SECTION 9: Physical and chemical pro	operties		
Butyl rubber, BR Nitrile rubber, NBR • <b>Eye/face protection</b> Safety glasses • <b>Body protection:</b> Light weight protective c	operties		
Butyl rubber, BR Nitrile rubber, NBR • Eye/face protection Safety glasses • Body protection: Light weight protective c SECTION 9: Physical and chemical pro • 9.1 Information on basic physical and chemical • General Information	operties al properties		
Butyl rubber, BR Nitrile rubber, NBR • <b>Eye/face protection</b> Safety glasses • <b>Body protection:</b> Light weight protective c <b>SECTION 9: Physical and chemical pro</b> • <b>9.1 Information on basic physical and chemical • General Information</b> • <b>Physical state</b>	operties al properties Fluid		
Butyl rubber, BR Nitrile rubber, NBR • Eye/face protection Safety glasses • Body protection: Light weight protective c SECTION 9: Physical and chemical pro • 9.1 Information on basic physical and chemical • General Information • Physical state • Colour:	operties al properties Fluid Colourless		
Butyl rubber, BR Nitrile rubber, NBR • Eye/face protection Safety glasses • Body protection: Light weight protective c SECTION 9: Physical and chemical pro • 9.1 Information on basic physical and chemical • General Information • Physical state • Colour: • Smell:	operties al properties Fluid Colourless Ester-like		
Butyl rubber, BR Nitrile rubber, NBR • Eye/face protection Safety glasses • Body protection: Light weight protective c SECTION 9: Physical and chemical pro • 9.1 Information on basic physical and chemical • General Information • Physical state • Colour: • Smell: • Odour threshold:	operties al properties Fluid Colourless Ester-like Not determined.		
Butyl rubber, BR Nitrile rubber, NBR • Eye/face protection Safety glasses • Body protection: Light weight protective c SECTION 9: Physical and chemical pro 9.1 Information on basic physical and chemical • General Information • Physical state • Colour: • Smell: • Odour threshold: • Melting point/freezing point:	operties al properties Fluid Colourless Ester-like		
Butyl rubber, BR Nitrile rubber, NBR Eye/face protection Safety glasses Body protection: Light weight protective c SECTION 9: Physical and chemical pro 9.1 Information on basic physical and chemical General Information Physical state Colour: Smell: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point and	operties al properties Fluid Colourless Ester-like Not determined. Not determined		
Butyl rubber, BR Nitrile rubber, NBR • Eye/face protection Safety glasses • Body protection: Light weight protective c SECTION 9: Physical and chemical pro • 9.1 Information on basic physical and chemical • General Information • Physical state • Colour: • Smell: • Odour threshold: • Melting point/freezing point: • Boiling point or initial boiling point and boiling range	operties al properties Fluid Colourless Ester-like Not determined. Not determined 100 °C		
Butyl rubber, BR Nitrile rubber, NBR • Eye/face protection Safety glasses • Body protection: Light weight protective c SECTION 9: Physical and chemical pro • 9.1 Information on basic physical and chemical • General Information • Physical state • Colour: • Smell: • Odour threshold: • Melting point/freezing point: • Boiling point or initial boiling point and boiling range • Flammability	operties al properties Fluid Colourless Ester-like Not determined. Not determined		
Butyl rubber, BR Nitrile rubber, NBR • Eye/face protection Safety glasses • Body protection: Light weight protective c SECTION 9: Physical and chemical pro • 9.1 Information on basic physical and chemical • General Information • Physical state • Colour: • Smell: • Odour threshold: • Melting point/freezing point: • Boiling point or initial boiling point and boiling range • Flammability	operties al properties Fluid Colourless Ester-like Not determined. Not determined 100 °C		
Butyl rubber, BR Nitrile rubber, NBR • Eye/face protection Safety glasses • Body protection: Light weight protective c SECTION 9: Physical and chemical pro • 9.1 Information on basic physical and chemical • General Information • Physical state • Colour: • Smell: • Odour threshold: • Melting point/freezing point: • Boiling point or initial boiling point and boiling range • Flammability • Lower and upper explosion limit	operties al properties Fluid Colourless Ester-like Not determined. Not determined 100 °C Not applicable.		
Butyl rubber, BR Nitrile rubber, NBR • Eye/face protection Safety glasses • Body protection: Light weight protective c SECTION 9: Physical and chemical pro • 9.1 Information on basic physical and chemical • General Information • Physical state • Colour: • Smell: • Odour threshold: • Melting point/freezing point: • Boiling point or initial boiling point and boiling range • Flammability • Lower and upper explosion limit • Lower:	operties al properties Fluid Colourless Ester-like Not determined. Not determined 100 °C Not applicable. 2.1 Vol %		
Butyl rubber, BR Nitrile rubber, NBR • Eye/face protection Safety glasses • Body protection: Light weight protective c SECTION 9: Physical and chemical pro • 9.1 Information on basic physical and chemical • General Information • Physical state • Colour: • Smell: • Odour threshold: • Melting point/freezing point: • Boiling point or initial boiling point and boiling range • Flammability • Lower and upper explosion limit • Lower: • Upper:	operties al properties Fluid Colourless Ester-like Not determined. Not determined 100 °C Not applicable. 2.1 Vol % 12.5 Vol %		
Butyl rubber, BR Nitrile rubber, NBR • Eye/face protection Safety glasses • Body protection: Light weight protective c SECTION 9: Physical and chemical pro 9.1 Information on basic physical and chemical • General Information • Physical state • Colour: • Smell: • Odour threshold: • Melting point/freezing point: • Boiling point or initial boiling point and boiling range • Flammability • Lower and upper explosion limit • Lower: • Upper: • Flash point:	operties al properties Fluid Colourless Ester-like Not determined. Not determined 100 °C Not applicable. 2.1 Vol % 12.5 Vol % 10 °C (80-62-6 methyl methacrylate)		
Butyl rubber, BR Nitrile rubber, NBR • Eye/face protection Safety glasses • Body protection: Light weight protective c SECTION 9: Physical and chemical pro • 9.1 Information on basic physical and chemical • General Information • Physical state • Colour: • Smell: • Odour threshold: • Melting point/freezing point: • Boiling point or initial boiling point and boiling range • Flammability • Lower and upper explosion limit • Lower: • Upper: • Flash point: • Ignition temperature:	operties al properties Fluid Colourless Ester-like Not determined. Not determined 100 °C Not applicable. 2.1 Vol % 12.5 Vol % 10 °C (80-62-6 methyl methacrylate) 430.0 °C		
Butyl rubber, BR Nitrile rubber, NBR • Eye/face protection Safety glasses • Body protection: Light weight protective c SECTION 9: Physical and chemical pro 9.1 Information on basic physical and chemical • General Information • Physical state • Colour: • Smell: • Odour threshold: • Melting point/freezing point: • Boiling point or initial boiling point and boiling range • Flammability • Lower and upper explosion limit • Lower: • Upper: • Flash point: • Ignition temperature: • Decomposition temperature:	operties al properties Fluid Colourless Ester-like Not determined. Not determined 100 °C Not applicable. 2.1 Vol % 12.5 Vol % 10 °C (80-62-6 methyl methacrylate)		
Butyl rubber, BR Nitrile rubber, NBR • Eye/face protection Safety glasses • Body protection: Light weight protective c SECTION 9: Physical and chemical pro • 9.1 Information on basic physical and chemical • General Information • Physical state • Colour: • Smell: • Odour threshold: • Melting point/freezing point: • Boiling point or initial boiling point and boiling range • Flammability • Lower and upper explosion limit • Lower: • Upper: • Flash point: • Ignition temperature: • Decomposition temperature: • SADT	operties al properties Fluid Colourless Ester-like Not determined. Not determined 100 °C Not applicable. 2.1 Vol % 12.5 Vol % 10 °C (80-62-6 methyl methacrylate) 430.0 °C Not determined.		
Butyl rubber, BR Nitrile rubber, NBR • Eye/face protection Safety glasses • Body protection: Light weight protective c SECTION 9: Physical and chemical pro 9.1 Information on basic physical and chemical • General Information • Physical state • Colour: • Smell: • Odour threshold: • Melting point/freezing point: • Boiling point or initial boiling point and boiling range • Flammability • Lower and upper explosion limit • Lower: • Upper: • Flash point: • Ignition temperature: • Decomposition temperature:	operties al properties Fluid Colourless Ester-like Not determined. Not determined 100 °C Not applicable. 2.1 Vol % 12.5 Vol % 10 °C (80-62-6 methyl methacrylate) 430.0 °C		



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· 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:	47 hPa
Density and/or relative density	(
Density at 20 °C	1.000 g/cm <sup>3</sup>
Relative density	Not determined.
· Vapour density	Not determined.
	o further relevant information available.
· Appearance:	
· Form:	Fluid
Important information on protection of	F
health and environment, and on safety.	
Self-inflammability:	Product is not selfigniting.
<ul> <li>Explosive properties:</li> </ul>	Product is not explosive. However, formation o
	explosive air/vapour mixtures is possible.
Change in condition	
· Evaporation rate	Not determined.
Information with regard to physical hazard	1
classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	
Highly flammable liquid and vapour.	
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
• Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	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** No dangerous reactions known **10.4 Conditions to avoid** No further relevant information available.

• **10.5 Incompatible materials:** No further relevant information available.

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## • 10.6 Hazardous decomposition products: None Additional information:

If stored longer than recommended and/or above recommended temperature, product may polymerize generating heat.

Acute	toxicity Ba	hazard classes as defined in Regulation (EC) No 1272/2008 used on available data, the classification criteria are not met.
		es that are relevant for classification:
	ethyl meth	•
Oral	LD50	~7,900 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (guinea pig) (OECD 402)
		29.8 mg/l (rat)
72869-86	bismeth	•
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide		
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
		perbenzoate
Oral	LD0	2,000 mg/kg (rat) (OECD 423)
Dermal	LD0	2,000 mg/kg (rat) (OECD 402)
Inhalative		1.01 mg/L (rat) (OECD 439)
		4.9 mg/L (rat) (OECD 439)
Cause Seriou Respin May ca Germ Carcin Repro STOT- May ca STOT- Aspira	ratory or sl ause an alle cell mutag ogenicity ductive to single exp ause respira repeated e tion hazar mation on	ion. age/irritation Based on available data, the classification criteria are not met. kin sensitisation rgic skin reaction. enicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. kicity Based on available data, the classification criteria are not met.

#### **SECTION 12: Ecological information**

· 12.1 Toxicity

· Aquatic toxicity:

80-62-6 methyl methacrylate

EC50/21d 49 mg/L (daphnia) (OECD 211)

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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)
72869-86-4 7	7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl
	bismethacrylate
EC50/48h	>1.2 mg/l (daphnia) (OECD 202)
LC50/96h	10.1 mg/l (fish) (OECD 203)
	>0.68 mg/l (algae) (OECD 201)
	0.21 mg/l (algae) (OECD 201)
	liphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
EC50/48h	10,100 mg/l (algae)
	3.53 mg/l (daphnia) (OECD 202)
LC50/96h	1.4 mg/l (fish) (OECD 203)
	>2.01 mg/l (algae) (OECD 201)
ErC10/72h	1.56 mg/L (algae) (OECD 201)
	ence and degradability
	nyl methacrylate
	on 94 % /14d (not defined) (OECD 301C)
72869-86-4 7 k	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate
	on 22 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)
75980-60-8 c	liphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
Biodegradatio	on 0-10 % /28d (not defined) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D)
	Imulative potential
	liphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
	tion factor (BCF) 47-55 (not defined)
• 12.5 Results PBT: Not • vPvB: No • 12.6 Endocri For informatio	<i>v in soil</i> No further relevant information available. <i>of PBT and vPvB assessment</i> applicable. <i>t applicable.</i> <i>ine disrupting properties</i> <i>on on endocrine disrupting properties see section 11.</i> <i>dverse effects</i> No further relevant information available.
SECTION	13: Disposal considerations
	reatment methods

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.

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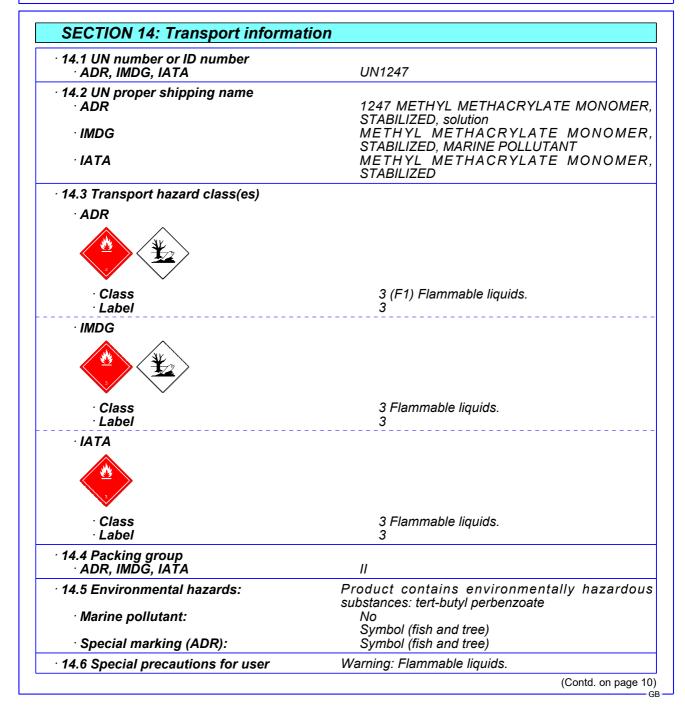
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Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations. Non contaminated packagings can be used for recycling.





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	(Contd. of page S
<ul> <li>Kemler Number:</li> <li>EMS Number:</li> <li>Stowage Category</li> <li>Stowage Code</li> </ul>	33 F-E,S-D C SW1 Protected from sources of heat. SW2 Clear of living quarters.
<ul> <li>14.7 Maritime transport in bulk according IMO instruments</li> </ul>	to Not applicable.
· Transport/Additional information:	-
• ADR • Limited quantities (LQ) • Excepted quantities (EQ) • Transport category • Tunnel restriction code	1L Code: E2 Maximum net quantity per inner packaging 30 ml Maximum net quantity per outer packaging 500 ml 2 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging 30 ml Maximum net quantity per outer packaging 500 ml
· UN "Model Regulation":	UN1247, METHYL METHACRYLATI 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

Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

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.
- Heating may cause a fire. Causes skin irritation. H242

H315

- H317 May cause an allergic skin reaction.
- Harmful if inhaled. H332
- May cause respiratory irritation. H335
- Suspected of damaging fertility. H361f
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

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H41	2 Harmful to aquatic life with long lasting effects.	
EUł	1204 Contains isocyanates. May produce an allergic reaction.	
	viations and acronyms:	
SADT	elf Accelerating Decomposition Temperature	
ADR: A	cord relatif au transport international des marchandises dangereuses par r	oute (European Aareem
Concern	ng the International Carriage of Dangerous Goods by Road)	oute (European Agreent
	ternational Maritime Code for Dangerous Goods	
	ernational Air Transport Association	
	bally Harmonised System of Classification and Labelling of Chemicals	
	European Inventory of Existing Commercial Chemical Substances	
	European List of Notified Chemical Substances	
	emical Abstracts Service (division of the American Chemical Society)	
DNEL: D	erived No-Effect Level (UK REACH)	
PNEC: F	redicted No-Effect Concentration (ÚK REACH)	
LC50: Le	thal concentration, 50 percent	
	thal dose, 50 percent	
	rsistent, Bioaccumulative and Toxic	
	ry Persistent and very Bioaccumulative	
	1. 2: Flammable liquids – Category 2	
	ox. C: Organic peroxides – Type C/D	
Acute I c	x. 4: Acute toxicity – Category 4	
	2: Skin corrosion/irritation – Category 2	
	s. 1: Skin sensitisation – Category 1	
	s. 1B: Skin sensitisation – Category 1B	
	Reproductive toxicity – Category 2	
	E 3: Specific target organ toxicity (single exposure) – Category 3 Nauto 1: Hozardoun to the equatio environment, equatio equatio hereard, Category 1	
Aqualic A	Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	non/ 2
Aquatic	Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Cate Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Categ	jory 2
· * Doto	annonic 5. Hazardous to the aquatic environment - long-term aquatic hazard - Caley	<i>J</i> OI <i>y</i> 0
Dala	compared to the previous version altered.	