

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-<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**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
 - **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
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 (CO₂)
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

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

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· DNELs		
94-36-0 dibenzoyl peroxide		
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/m3 (not defined)
141-32-2 n-butyl acrylate		
Inhalative	worker industrial, long term, local	11 mg/m3 (not defined)
· PNECs		
94-36-0 dibenzoyl peroxide		
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)
141-32-2 n-butyl acrylate		
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 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** 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**

No further relevant information available.

· **Appearance:**

· **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

· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· 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**
 - 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)
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141-32-2 n-butyl acrylate

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

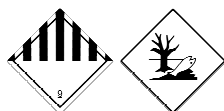
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Ethylene dibenzoate, dibenzoyl peroxide), MARINE POLLUTANT

· IATA

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

· 14.3 Transport hazard class(es)

· ADR



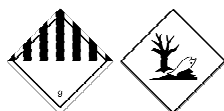
· Class

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

Can be released in case of fire

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Nitrogen oxides (NO_x)

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/m³, 100 ppmLong-term value: 208 mg/m³, 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/m³ (not defined)

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	worker industrial, long term, systemic	348.4 mg/m ³ (not defined)
	worker industrial, long term, local	208 mg/m ³ (not defined)
	general population, acute, local	208 mg/m ³ (not defined)
	general population, long term, systemic	74.3 mg/m ³ (not defined)
868-77-9 2-hydroxyethyl methacrylate		
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 ³ (not defined)
	general population, long term, systemic	2.9 mg/m ³ (not defined)
79-39-0 methacrylamide		
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 ³ (not defined)
	worker industrial, acute, local	2.54 mg/m ³ (not defined)
	worker industrial, long term, systemic	7.89 mg/m ³ (not defined)
	worker industrial, long term, local	2.54 mg/m ³ (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/m ³ (not defined)
	general population, long term, systemic	0.58 mg/m ³ (not defined)
150-76-5 mequinol		
Inhalative	worker industrial, long term, systemic	3 mg/m ³ (not defined)
PNECs		
80-62-6 methyl methacrylate		
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)
868-77-9 2-hydroxyethyl methacrylate		
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)
79-39-0 methacrylamide		
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)
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)
150-76-5 mequinol	
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 | |
| · 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 ³ |
| · 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

· 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** 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)
868-77-9 2-hydroxyethyl methacrylate		
Oral	LD50	5,564 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
79-39-0 methacrylamide		
Oral	LD50	1,815 mg/kg (ATE) 1,815 mg/kg (rat) (OECD 401)
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)
150-76-5 mequinol		
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

· IMDG, IATA | 1247 METHYL METHACRYLATE MONOMER, STABILIZED solution
METHYL METHACRYLATE MONOMER, STABILIZED solution |
| · 14.3 Transport hazard class(es)
· ADR

<div style="text-align: center;">  </div> · Class
· Label | 3 (F1) Flammable liquids.
3 |
| · IMDG, IATA

<div style="text-align: center;">  </div> · Class
· Label | 3 Flammable liquids.
3 |
| · 14.4 Packing group
· ADR, IMDG, IATA | II |
| · 14.5 Environmental hazards:
· Marine pollutant: | No |
| · 14.6 Special precautions for user
· Kemler Number: | Warning: Flammable liquids.
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· EMS Number:	F-E, S-D
· Stowage Category	B
· Stowage Code	SW2 Clear of living quarters.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	-
· ADR	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	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.**