



Printing date 10.04.2023 Version number 8 (replaces version 7) Revision: 10.04.2023

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

- -1.1 Product identifier
- Trade name: 1663 Component A 1665
- 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 Adhesives
- -1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

Kisling AG

Motorenstrasse 102

CH-8620 Wetzikon

Tel: +41- 58-272 0 272

- Further information obtainable from: Product safety department
- Department issuing MSDS: info@kisling.com
- 1.4 Emergency telephone number:

Tox Info Suisse: 145 / +41-44-2 51 51 51

- +49-700-24 112 112 (KAR)
- +1 872 5888271

#### **SECTION 2: Hazards identification**

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

Flam. Sol. 1 H228 Flammable solid.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

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

STOT SE 3 H335 May cause respiratory irritation.

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

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

- Hazard pictograms







GHS02

GHS05

GHS07

#### - Signal word Danger

## - Hazard-determining components of labelling:

methyl methacrylate

methacrylic acid

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

N,N-Bis-(2-hydroxyethyl)-para-toluidine, ethoxylated

#### - Hazard statements

H228 Flammable solid.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

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- Precautionary statements

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

smoking.

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

P261 Avoid breathing vapours.

P280 Wear protective gloves / eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

-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: Adhesive

- Dangerous components:		
CAS: 80-62-6 EINECS: 201-297-1 Index number: 607-035-00-6	methyl methacrylate Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	> 30 - ≤ 50%
CAS: 20882-04-6 EINECS: 244-096-4	{2-[(2-methyl-1-oxoallyl)oxy]ethyl} hydrogen succinate Skin Irrit. 2, H315; Eye Irrit. 2, H319	> 5 - < 10%
CAS: 79-41-4 EINECS: 201-204-4 Index number: 607-088-00-5	methacrylic acid Acute Tox. 3, H311; Skin Corr. 1A, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335 Specific concentration limit: STOT SE 3; H335: C ≥ 1 %	≥ 3 - < 5%
CAS: 28961-43-5 NLP: 500-066-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid  Eye Irrit. 2, H319; Skin Sens. 1, H317	≥ 0.1 - < 1%
EC number: 911-490-9	N,N-Bis-(2-hydroxyethyl)-para-toluidine, ethoxylated Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥ 0.1 - < 1%
CAS: 102-82-9 EINECS: 203-058-7	tributylamine Acute Tox. 3, H311; Acute Tox. 1, H330; Acute Tox. 4, H302; Skin Irrit. 2, H315	≤ 1%
CAS: 99-97-8 EINECS: 202-805-4 Index number: 612-056-00-9	N,N-dimethyl-p-toluidine Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Carc. 2, H351; STOT RE 2, H373; Aquatic Chronic 3, H412	< 1%
CAS: 26741-53-7	3,9-Bis(2,4-di-tertbutyl phenoxy)-2,4,8,10.tetroxa-3,9-diphosphaspiro[5.5]undecane Aquatic Chronic 1, H410	≥ 0.025 - < 0.25%
CAS: 106-51-4 EINECS: 203-405-2 Index number: 606-013-00-3	p-benzoquinone Acute Tox. 3, H301; Acute Tox. 3, H331; Aquatic Acute 1, H400 (M=10); Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	< 0.025%

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

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#### **SECTION 4: First aid measures**

#### -4.1 Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.

#### - After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

#### - After skin contact:

After contact with skin, wash immediately with plenty of soap and water.

If skin irritation continues, consult a doctor.

#### - After eve contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Rinse cautiously with water for several minutes.

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

#### - After swallowing:

Rinse out mouth and then drink plenty of water.

If swallowed, do not induce vomiting: seek medical advice and show this container or label.

#### -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, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: Water with full jet

## -5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

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

### -5.3 Advice for firefighters

#### - Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

#### - Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

#### **SECTION 6: Accidental release measures**

#### -6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Use respiratory protective device against the effects of fumes/dust/aerosol.

#### - 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow product to reach sewage system or any water course.

### - 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Pick up mechanically.

Flush away residues with plenty of water.

Dispose contaminated material as waste according to section 13.

## - 6.4 Reference to other sections

Fumes can combine with air to form an explosive mixture.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 10 for information on "stability and reactivity".

See Section 13 for disposal information.

### **SECTION 7: Handling and storage**

#### -7.1 Precautions for safe handling

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

- Information about fire - and explosion protection:

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 receptacles:

Store in a cool location.

Store only in the original receptacle.

- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Keep receptacle tightly sealed.

Store receptacle in a well ventilated area.

- Storage class (TRGS 510, Storage of hazardous substances in non-stationary containers): 4.1 B
- -7.3 Specific end use(s) No further relevant information available.

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

-8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:			
80-62-6 methyl met	80-62-6 methyl methacrylate		
MAK (Switzerland) Short-term value: 420 mg/m³, 100 ppm Long-term value: 210 mg/m³, 50 ppm S SSc;			
79-41-4 methacryli	c acid		
MAK (Switzerland) Short-term value: 360 mg/m³, 100 ppm Long-term value: 180 mg/m³, 50 ppm SSc;			
106-51-4 p-benzoqu	iinone		
MAK (Switzerland)	MAK (Switzerland) Short-term value: 0.4 mg/m³, 0.1 ppm Long-term value: 0.4 mg/m³, 0.1 ppm S;		
- DNELs	- DNELs		
80-62-6 methyl met	80-62-6 methyl methacrylate		
Dermal   Longterm System   13.67 mg/kg bw/day (Worker)			
Inhalative Longterm System 208 mg/m³ (Worker)			
- PNECs			
80-62-6 methyl methacrylate			
PNEC Freshwater 0.94 mg/l			
PNEC Freshwater se	PNEC Freshwater sed 5.74 mg/kg		
PNEC Marinewater	0.94 mg/l		
PNEC Soil	1.47 mg/kg		
Additional information. The lists valid during the making were used as basis			

- Additional information: The lists valid during the making were used as basis.

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#### -8.2 Exposure controls

- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

### - Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter ABEK

#### - Hand protection

Protective gloves (EN 374)

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

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

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### - Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### - Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye/face protection Tightly sealed goggles

## **SECTION 9: Physical and chemical properties**

-9.1 Information on	basic phys	sical and cl	hemical pro	perties

- General Information

- Colour:
- Odour:
- Odour threshold:
- Melting point/freezing point:

Beige
Characteristic
Not determined.
Undetermined.

- Boiling point or initial boiling point and boiling

range Undetermined.
- Flammability Not determined.

- Lower and upper explosion limit

- Lower: Not determined.
- Upper: Not determined.

- Flash point: 27 °C (DIN EN ISO 3679)

- Decomposition temperature: Not determined. - pH at 20 °C 4 - 5 (10%)

- Viscosity:

- Kinematic viscosity Not applicable.

- Kinematic viscosity

- **Dynamic:** Not applicable.

- Solubility

- water:
- Partition coefficient n-octanol/water (log value)
- Vapour pressure:

Insoluble.

Not determined.
Not applicable.

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- Vapour pressure:	
- Density and/or relative density	
- Density at 20 °C:	$0.99 \text{ g/cm}^3$
- Relative density	Not determined.
- Vapour density	Not applicable.
-9.2 Other information	
- Appearance:	
- Form:	Pasty
	ADR 2.3.4: solid
- Important information on protection of healt	h and
environment, and on safety.	
- Ignition temperature:	Product is not self-igniting.
- Explosive properties:	Product is not explosive. However, formation o
	explosive air/vapour mixtures are possible.
- Solvent separation test:	
- Solids content:	100.0 %
- Change in condition	
- Softening point/range	
- Oxidising properties	Not determined.
- Evaporation rate	Not applicable.
- Information with regard to physical hazard c	classes
- Explosives	Void
- Flammable gases	Void
- Aerosols	Void
- Oxidising gases	Void
- Gases under pressure	Void
- Flammable liquids	Void
- Flammable solids	
Flammable solid.	
- Self-reactive substances and mixtures	Void
- Pyrophoric liquids	Void
- Pyrophoric solids	Void
- Self-heating substances and mixtures	Void
- Substances and mixtures, which emit flamma	
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
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

- 10.3 Possibility of hazardous reactions Forms explosive gas mixture with air.
- 10.4 Conditions to avoid No further relevant information available.
- -10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:

No dangerous products of decomposition if used and stored according to specifications.

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## **SECTION 11: Toxicological information**

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

- LD/L	- LD/LC50 values relevant for classification:		
80-62	80-62-6 methyl methacrylate		
Oral	LD50	)	7,872 mg/kg (Rat, male/female)
Derm	al LD50	)	> 5,000 mg/kg (Rabbit)
Inhala	ative LC50	)/4 h	78,000 mg/l (Rat, male/female)
79-41	-4 methaci	rylic	acid
Oral	LD50	)	1,320 - 2,260 mg/kg (Rat, male/female)
Derm	al LD50	)	500 - 1,000 mg/kg (Rabbit)
Inhala	ative LC50	)/4 h	7,100 mg/l (Rat, male/female)
N,N-l	Bis-(2-hydı	roxy	ethyl)-para-toluidine, ethoxylated
Oral	LD50	)	619 mg/kg
Derm	al LD50	)	> 2,000 mg/kg
102-8	32-9 tributy	ylam	ine
Inhala	ative LC50	)/4 h	0.5 mg/l (Rat, male/female)
99-97	99-97-8 N,N-dimethyl-p-toluidine		
Inhala	ative LC50	)/4 h	1.4 mg/l (Rat, male/female)
106-5	1-4 p-benz	zoqui	inone
Oral	LD50	)	130 mg/kg (Rat, male/female)
Inhala	ative LC50	)/4 h	0.51 mg/l

## - Skin corrosion/irritation

Causes skin irritation.

- Serious eye damage/irritation

Causes serious eye damage.

- Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure

May cause respiratory irritation.

- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- Additional toxicological information:

No experimentally found toxicological data are available for this preparation.

-11.2 Information on other hazards

#### - Endocrine disrupting properties

None of the ingredients is listed.

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

- -12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- Toxicity to fish:

## 106-51-4 p-benzoquinone

LC50/96 h 0.472 mg/l (Fish)

-12.2 Persistence and degradability No further relevant information available.

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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 No further relevant information available.
- Additional ecological information:
- General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Danger to drinking water if even small quantities leak into the ground.

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

## **SECTION 13: Disposal considerations**

- -13.1 Waste treatment methods
- Recommendation Disposal must be made according to official regulations.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

- 14.1 UN number or ID number - ADR, IMDG, IATA	UN3175
- 14.2 UN proper shipping name	
- ADR	3175 SOLIDS CONTAINING FLAMMABLE
	LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED)
- IMDG, IATA	SOLIDS CONTAINING FLAMMABLE LIQUID
	N.O.S. (METHYL METHACRYLATE, MONOMER
	STABILIZED)
- 14.3 Transport hazard class(es)	
- ADR	
- Class	4.1 (F1) Flammable solids, self-reactive substances polymerizing substances and solid desensitized explosives
- Label	4.1
- IMDG, IATA	
- Class	4.1 Flammable solids, self-reactive substances polymerizing substances and solid desensitized explosives
- Label	4.1

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- 14.4 Packing group - ADR, IMDG, IATA	II
- 14.5 Environmental hazards:	Not applicable.
- 14.6 Special precautions for user	Warning: Flammable solids, self-reactive substances polymerizing substances and solid desensitize explosives
- Hazard identification number (Kemler code):	40
- EMS Number:	F-A,S-I
- Stowage Category	B
- 14.7 Maritime transport in bulk according to IM instruments	Not applicable.
- Transport/Additional information:	
-ADR	
- Limited quantities (LQ)	1 kg
- Excepted quantities (EQ)	Code: E2
1 1 ( )	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 500 g
- Transport category	2
- Tunnel restriction code	E
- UN "Model Regulation":	UN 3175 SOLIDS CONTAINING FLAMMABL LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED), 4.1, II

### **SECTION 15: Regulatory information**

- -15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations:
- Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this 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.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

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

H400 Very toxic to aquatic life.

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H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

#### - Abbreviations and acronyms:

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids - Category 2

Flam. Sol. 1: Flammable solids – Category 1

Acute Tox. 4: Acute toxicity - Category 4

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 1: Acute toxicity – Category 1

Acute Tox. 2: Acute toxicity - Category 2

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

Skin Sens. 1: Skin sensitisation - Category 1

Carc. 2: Carcinogenicity - 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 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

 $A quatic\ Chronic\ 3: Hazardous\ to\ the\ aquatic\ environment\ -\ long-term\ aquatic\ hazard\ -\ Category\ 3$ 

- \* 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: 1664 - Component B 1665 1670 1680

-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 Adhesives

- 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

Kisling AG

Motorenstrasse 102

CH-8620 Wetzikon

Tel: +41-58-272 0 272

- Further information obtainable from: Product safety department

- Department issuing MSDS: info@kisling.com

- 1.4 Emergency telephone number:

Tox Info Suisse: 145 / +41-44-2 51 51 51

+49-700-24 112 112 (KAR)

+1 872 5888271

#### **SECTION 2: Hazards identification**

-2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008

Org. Perox. E H242 Heating may cause a fire. Eye Irrit. 2 H319 Causes serious eye irritation.

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

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very 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 CLP regulation.

- Hazard pictograms







GHS09

GHS02

GHS07

- Signal word Warning

- Hazard-determining components of labelling:

dibenzoyl peroxide

bis[4-(2,3-epoxypropoxy)phenyl]propane

- Hazard statements

H242 Heating may cause a fire.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

- Precautionary statements

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

smoking.

P261 Avoid breathing vapours.

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Wear protective gloves / eye protection. P280

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P410 Protect from sunlight.

P411+P235 Store at temperatures not exceeding 30°C. Keep cool.

- Additional information:

EUH205 Contains epoxy constituents. 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
- Description: Adhesive

- Dangerous components:		
CAS: 94-36-0 EINECS: 202-327-6	dibenzoyl peroxide  Org. Perox. B. H241: Aquatic Acute 1, H400 (M=10): Aquatic	> 30 - ≤ 100%
Index number: 617-008-00-0	Org. Perox. B, H241; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane	≥ 2.5 - < 5%
EINECS: 216-823-5	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2,	
Index number: 603-073-00-2	H319; Skin Sens. 1, H317, EUH205	
	Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 %	
	Skin Irrit. 2; H315: C ≥ 5 %	

<sup>-</sup> 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:

Immediately remove any clothing soiled by the product.

Put contaminated clothing in water to prevent fire.

### - After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

## - After skin contact:

After contact with skin, wash immediately with plenty of soap and water.

If skin irritation continues, consult a doctor.

#### - After eye contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Rinse cautiously with water for several minutes.

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

## - After swallowing:

Rinse out mouth and then drink plenty of water.

If swallowed, do not induce vomiting: seek medical advice and show this container or label.

#### -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: Use fire extinguishing methods suitable to surrounding conditions.
- -5.2 Special hazards arising from the substance or mixture

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

May cause fire. May re-ignite itself after fire is extinguished. This material increases the risk of fire and may aid combustion. In a fire or if heated, a pressure increase will occur and the container may burst. Runoff to sewer may create fire or explosion hazard.

- -5.3 Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

- Additional information

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

#### **SECTION 6: Accidental release measures**

### - 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

#### - 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow product to reach sewage system or any water course.

#### - 6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Flush away residues with plenty of water.

Never use saw-dust or other flammable substances.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Never replace spilled product into original containers (danger of decomposition).

Dispose of the material collected according to regulations.

#### - 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 10 for information on "stability and reactivity".

See Section 13 for disposal information.

#### **SECTION 7: Handling and storage**

- -7.1 Precautions for safe handling Keep receptacles tightly sealed.
- Information about fire and explosion protection:

Keep away from heat and direct sunlight.

The product may cause fire due to release of oxygen. May be explosive, when combined with flammable substances.

Violent relase of gases on decomposition.

### -7.2 Conditions for safe storage, including any incompatibilities

- Storage:
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- Information about storage in one common storage facility:

Store away from flammable substances.

Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.

Store away from foodstuffs.

## - Further information about storage conditions:

Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

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Store in a cool place.

- Maximum storage temperature: 30 °C
   Minimum storage temperature: 5 °C
- Storage class (TRGS 510, Storage of hazardous substances in non-stationary containers): 5.2
- -7.3 Specific end use(s) No further relevant information available.

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

		s that require monitoring at the workplace:
	benzoyl peroxide	
MAK (Sw		rm value: 5 e mg/m³
	Long-ter	m value: 5 e mg/m³
DNELs		
	benzoyl peroxide	
Dermal	,	6.6 mg/kg bw/day (General population)
Inhalative	Acute, System	6.6 mg/m³ (General population)
		11.75 mg/m³ (General population)
1675-54-3	bis[4-(2,3-epoxyp	ropoxy)phenyl]propane
Oral	Acute, System	0.5 mg/kg (General population)
Dermal	Longterm System	0.0893 mg/kg bw/day (General population)
		0.75 mg/kg bw/day (Worker)
Inhalative	Longterm System	0.89 mg/m³ (General population)
		4.93 mg/m³ (Worker)
PNECs		
94-36-0 di	benzoyl peroxide	
Oral PNE	C oral	6.67 mg/kg Food (General population)
	C oral C Freshwater	6.67 mg/kg Food (General population) 0.000602 mg/l (General population)
PNE		
PNE PNE	C Freshwater	0.000602 mg/l (General population)
PNE PNE PNE	C Freshwater C Freshwater sed	0.000602 mg/l (General population) 0.338 mg/kg (General population)
PNE PNE PNE	C Freshwater C Freshwater sed C Marinewater	0.000602 mg/l (General population) 0.338 mg/kg (General population) 0.0000602 mg/l (General population)
PNE PNE PNE PNE	C Freshwater C Freshwater sed C Marinewater C Soil C STP	0.000602 mg/l (General population) 0.338 mg/kg (General population) 0.0000602 mg/l (General population) 0.0758 mg/kg (General population)
PNE PNE PNE PNE PNE	C Freshwater C Freshwater sed C Marinewater C Soil C STP C Marinewater sed	0.000602 mg/l (General population) 0.338 mg/kg (General population) 0.0000602 mg/l (General population) 0.0758 mg/kg (General population) 0.35 mg/l (General population)
PNE PNE PNE PNE PNE	C Freshwater C Freshwater sed C Marinewater C Soil C STP C Marinewater sed bis[4-(2,3-epoxyp	0.000602 mg/l (General population) 0.338 mg/kg (General population) 0.0000602 mg/l (General population) 0.0758 mg/kg (General population) 0.35 mg/l (General population) 0.0338 mg/kg (General population)
PNE PNE PNE PNE PNE PNE Oral PNE	C Freshwater C Freshwater sed C Marinewater C Soil C STP C Marinewater sed bis[4-(2,3-epoxyp	0.000602 mg/l (General population) 0.338 mg/kg (General population) 0.0000602 mg/l (General population) 0.0758 mg/kg (General population) 0.35 mg/l (General population) 0.0338 mg/kg (General population) ropoxy)phenyl propane
PNE PNE PNE PNE PNE PNE Oral PNE	C Freshwater C Freshwater sed C Marinewater C Soil C STP C Marinewater sed bis[4-(2,3-epoxyp) C oral	0.000602 mg/l (General population) 0.338 mg/kg (General population) 0.0000602 mg/l (General population) 0.0758 mg/kg (General population) 0.35 mg/l (General population) 0.0338 mg/kg (General population) ropoxy)phenyl propane  11 mg/kg Food
PNE	C Freshwater C Freshwater sed C Marinewater C Soil C STP C Marinewater sed bis[4-(2,3-epoxyp) C oral C Freshwater	0.000602 mg/l (General population) 0.338 mg/kg (General population) 0.0000602 mg/l (General population) 0.0758 mg/kg (General population) 0.35 mg/l (General population) 0.0338 mg/kg (General population) ropoxy)phenyl propane  11 mg/kg Food 0.006 mg/l
PNE	C Freshwater C Freshwater sed C Marinewater C Soil C STP C Marinewater sed bis[4-(2,3-epoxyp C oral C Freshwater sed	0.000602 mg/l (General population) 0.338 mg/kg (General population) 0.0000602 mg/l (General population) 0.0758 mg/kg (General population) 0.35 mg/l (General population) 0.0338 mg/kg (General population) ropoxy)phenyl propane  11 mg/kg Food 0.006 mg/l 0.341 mg/kg
PNE	C Freshwater C Freshwater sed C Marinewater C Soil C STP C Marinewater sed bis[4-(2,3-epoxyp C oral C Freshwater C Freshwater sed C Marinewater sed	0.000602 mg/l (General population) 0.338 mg/kg (General population) 0.0000602 mg/l (General population) 0.0758 mg/kg (General population) 0.35 mg/l (General population) 0.0338 mg/kg (General population) ropoxy)phenyl propane  11 mg/kg Food 0.006 mg/l 0.341 mg/kg 0.001 mg/l

- Additional information: The lists valid during the making were used as basis.
- -8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

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Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

#### - Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

### - Hand protection

Protective gloves (EN 374)

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

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

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### - Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### - Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye/face protection Tightly sealed goggles
- Body protection: Use protective suit.

## **SECTION 9: Physical and chemical properties**

- 9.1 Information on basic physical and chemical properti	ne

- General Information

Colour: Blue
 Odour: Characteristic
 Odour threshold: Not determined.
 Melting point/freezing point: Undetermined.

- Boiling point or initial boiling point and boiling

range Undetermined.
- Flammability May cause fire.

- Lower and upper explosion limit

- Lower: Not determined.
- Upper: Not determined.
- Flash point: Not applicable.
- Decomposition temperature: ≥50 °C (SADT)
- pH at 20 °C 6 - 7 (10%)

- Viscosity:

- **Kinematic viscosity** Not applicable.

- Kinematic viscosity

- **Dynamic:** Not applicable.

- Solubility

- water: Insoluble.
 - Partition coefficient n-octanol/water (log value)
 Not determined.

- Vapour pressure:

Not applicable.

- Vapour pressure:

- Density and/or relative density

- Density at 20 °C:

- Relative density

- Vapour density

1.15 g/cm<sup>3</sup>

Not determined.

Not applicable.

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-9.2 Other information

- Appearance:

- Form: Pasty

- Important information on protection of health and

environment, and on safety.

- Ignition temperature: Product is not self-igniting.

- Explosive properties: Product does not present an explosion hazard.

- Solvent separation test:

- Solids content: 100.0 %

- Change in condition - Softening point/range

- Oxidising properties Not determined. Not applicable. - Evaporation rate

- 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	
TT	

Heating may cause a fire.

Void - Corrosive to metals - Desensitised explosives Void

### **SECTION 10: Stability and reactivity**

- 10.1 Reactivity No further relevant information available.
- -10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

SADT (Self-Accelerating Decomposition Temperature): is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport.

A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the given temperature. Contact with incompatible substances can cause decomposition at or below the SADT.

Protect from heat and direct sunlight.

- 10.3 Possibility of hazardous reactions Reacts with heavy metals.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: Matal-salts, amines
- 10.6 Hazardous decomposition products:

No dangerous products of decomposition if used and stored according to specifications.

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## **SECTION 11: Toxicological information**

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

- LD/L	- LD/LC50 values relevant for classification:		
1675-	1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane		
Oral	LD50	15,000 mg/kg (Rat, male/female)	
Derma	1 LD50	23,000 mg/kg (Rabbit)	

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- 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 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.
- Additional toxicological information:

No experimentally found toxicological data are available for this preparation.

-11.2 Information on other hazards

#### - Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

- 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.

-	T	oxi	city	to	fish:
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### 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

LC50/96 h 2 mg/l (Fish)

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 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 No further relevant information available.
- Remark: Very toxic for fish
- Additional ecological information:
- General notes:

Also very poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Danger to drinking water if even small quantities leak into the ground.

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

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## **SECTION 13: Disposal considerations**

- -13.1 Waste treatment methods
- Recommendation Disposal must be made according to official regulations.
- Uncleaned packaging:
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information		
- 14.1 UN number or ID number - ADR, IMDG, IATA	UN3108	
- 14.2 UN proper shipping name - ADR	3108 ORGANIC PEROXIDE TYPE E, SOLID, ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide), MARINE POLLUTANT ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)	
- IMDG - IATA		
-14.3 Transport hazard class(es)		
- ADR		
<b>1 1 1 1 1 1 1 1 1 1</b>		
- Class	5.2 (P1) Organic peroxides.	
- Label	5.2	
- Class	5.2 Organic peroxides.	
- Label	5.2 5.2	
-IATA		
- Class - Label	<ul><li>5.2 Organic peroxides.</li><li>5.2</li></ul>	
- 14.4 Packing group - ADR, IMDG, IATA	Void	
- 14.5 Environmental hazards: - Marine pollutant:	Symbol (fish and tree)	
- Special marking (ADR):	Symbol (fish and tree)	
- 14.6 Special precautions for user - Hazard identification number (Kemler code):	Warning: Organic peroxides.	
- EMS Number: - Segregation groups	F-J,S-R (SGG16) Peroxides	
- Stowage Category	D	
Storinge Category	(Contd. on page	

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	(Contd. of page		
- Stowage Code - Segregation Code	SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.		
- 14.7 Maritime transport in bulk according	ng to IMO		
instruments	Not applicable.		
- Transport/Additional information:			
-ADR			
- Limited quantities (LQ)	500 g		
- Excepted quantities (EQ)	Code: E0		
• • •	Not permitted as Excepted Quantity		
- Transport category	2		
- Tunnel restriction code	D		
-IMDG			
- Limited quantities (LQ)	500 g		
- Excepted quantities (EQ)	Code: E0		
<del>-</del>	Not permitted as Excepted Quantity		
- UN "Model Regulation":	UN 3108 ORGANIC PEROXIDE TYPE E, SOLIE		
9	5.2, ENVIRONMENTALLY HAZARDOUS		

### **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations:
- Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### - Relevant phrases

- H241 Heating may cause a fire or explosion.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

EUH205 Contains epoxy constituents. May produce an allergic reaction.

#### - Abbreviations and acronyms:

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Org. Perox. B: Organic peroxides - Type B

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

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Org. Perox. E: Organic peroxides – Type E/F Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

Skin Sens. 1: Skin sensitisation – Category 1

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

- \* Data compared to the previous version altered.

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