

10.04.2023

Kit Components

Product code	Description
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KIS 1320-220504	1320
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Components:

KIS 1318-220504	1318 - Component A 1320
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KIS 1319-220504	1319 - Component B 1320
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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.04.2023

Version number 5 (replaces version 4)

Revision: 10.04.2023

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

- 1.1 Product identifier

- Trade name: **1318 - Component A 1320**

- 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

Resin

- 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

- Only representative (REACH) and importer (CLP):

Kisling Deutschland GmbH

Salzstraße 15

D-74676 Niedernhall

Tel +49 7940 50961 61

- Further information obtainable from: Product safety department

- Department issuing MSDS: info@kisling.com

- 1.4 Emergency telephone number:

+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

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.

Repr. 2 H361d Suspected of damaging the unborn child.

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 CLP regulation.

- Hazard pictograms



GHS05

GHS07

GHS08

GHS09

- Signal word Danger

- Hazard-determining components of labelling:

2-phenoxyethyl methacrylate

α,α -dimethylbenzyl hydroperoxide

2-hydroxyethyl methacrylate

mequinol

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.04.2023

Version number 5 (replaces version 4)

Revision: 10.04.2023

Trade name: 1318 - Component A 1320

(Contd. of page 1)

- Hazard statements

- H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H317 May cause an allergic skin reaction.
 H361d Suspected of damaging the unborn child.
 H411 Toxic to aquatic life with long lasting effects.

- Precautionary statements

- 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.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P310 Immediately call a POISON CENTER/doctor.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

- Labelling of packages where the contents do not exceed 125 ml**- Hazard pictograms**

GHS05 GHS07 GHS08 GHS09

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

- 2-phenoxyethyl methacrylate
 α,α -dimethylbenzyl hydroperoxide
 2-hydroxyethyl methacrylate
 mequinol

- Hazard statements

- H318 Causes serious eye damage.
 H317 May cause an allergic skin reaction.
 H361d Suspected of damaging the unborn child.

- Precautionary statements

- 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.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P310 Immediately call a POISON CENTER/doctor.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

- 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: 868-77-9	2-hydroxyethyl methacrylate	> 30 - ≤ 50%
EINECS: 212-782-2	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1,	
Index number: 607-124-00-X	H317	
Reg.nr.: 01-2119490169-29-xxxx		

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.04.2023

Version number 5 (replaces version 4)

Revision: 10.04.2023

Trade name: 1318 - Component A 1320

(Contd. of page 2)		
CAS: 10595-06-9 EINECS: 234-201-1 Reg.nr.: 01-2120752383-55-xxxx	2-phenoxyethyl methacrylate Repr. 2, H361d; Aquatic Chronic 2, H411; Skin Sens. 1A, H317	≥ 25 - ≤ 30%
CAS: 41637-38-1 EC number: 609-946-4	Ethoxylated Bisphenol-A Dimethacrylate Aquatic Chronic 4, H413	> 5 - ≤ 15%
CAS: 80-15-9 EINECS: 201-254-7 Index number: 617-002-00-8	α,α -dimethylbenzyl hydroperoxide Org. Perox. E, H242; Acute Tox. 3, H331; STOT RE 2, H373; Skin Corr. 1B, H314; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; STOT SE 3, H335 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 10 % Skin Irrit. 2; H315: 3 % ≤ C < 10 % Eye Dam. 1; H318: C ≥ 3 % Eye Irrit. 2; H319: 1 % ≤ C < 3 % STOT SE 3; H335: C < 10 %	≥ 3 - ≤ 5%
CAS: 150-76-5 EINECS: 205-769-8 Index number: 604-044-00-7	mequinol Repr. 2, H361d; Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥ 0.1 - < 1%
CAS: 79-41-4 EINECS: 201-204-4 Index number: 607-088-00-5 Reg.nr.: 01-2119463884-26-xxxx	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%	< 1%
CAS: 26741-53-7	3,9-Bis(2,4-di-tert.-butyl phenoxy)-2,4,8,10.tetroxa-3,9-diphosphaspiro[5.5]undecane Aquatic Chronic 1, H410	≥ 0.025 - < 0.25%

- **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.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- 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 immediately and show this container or label.

- 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.04.2023

Version number 5 (replaces version 4)

Revision: 10.04.2023

Trade name: 1318 - Component A 1320

(Contd. of page 3)

- 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:** 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.

- 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.

Ensure adequate ventilation

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.

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

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

Ensure good ventilation/exhaustion at the workplace.

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 only in the original receptacle.

- **Information about storage in one common storage facility:** Store away from foodstuffs.

- Further information about storage conditions:

Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

Store receptacle in a well ventilated area.

Store in a cool place.

- **Storage class (TRGS 510, Storage of hazardous substances in non-stationary containers):** 10-13

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.04.2023

Version number 5 (replaces version 4)

Revision: 10.04.2023

Trade name: 1318 - Component A 1320

- 7.3 Specific end use(s) No further relevant information available.

(Contd. of page 4)

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:

868-77-9 2-hydroxyethyl methacrylate

MAK (Germany) | vgl.Abschn.IIb

80-15-9 α,α -dimethylbenzyl hydroperoxide

MAK (Germany) | als Dampf und Aerosol;vgl.Abschn.Xa

79-41-4 methacrylic acid

AGW (Germany) | Long-term value: 180 mg/m³, 50 ppm
2 (I);DFG, Y

- CAS No. Designation of material % Type Value Unit

- Additional Occupational Exposure Limit Values for possible hazards during processing:

144-62-7 oxalic acid

IOELV (European Union) | Long-term value: 1 mg/m³AGW (Germany) | Long-term value: 1 E mg/m³
1(I);H, EU, 13- **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.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye/face protection** Tightly sealed goggles

EU-EN

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.04.2023

Version number 5 (replaces version 4)

Revision: 10.04.2023

Trade name: 1318 - Component A 1320

(Contd. of page 5)

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Colour:	Yellowish
- Odour:	Characteristic
- Odour threshold:	Not determined.
- Melting point/freezing point:	Undetermined.
- Boiling point or initial boiling point and boiling range	> 35 °C
- Flammability	Not applicable.
- Lower and upper explosion limit	
- Lower:	Not determined.
- Upper:	Not determined.
- Flash point:	> 100 °C
- Decomposition temperature:	Not determined.
- pH	Not determined.
- Viscosity:	
- Kinematic viscosity	Not determined.
- Kinematic viscosity	
- Dynamic:	Not determined.
- Solubility	
- water:	Not miscible or difficult to mix.
- Partition coefficient n-octanol/water (log value)	Not determined.
- Vapour pressure:	Not determined.
- Vapour pressure:	
- Density and/or relative density	
- Density:	Not determined.
- Relative density	Not determined.
- Vapour density	Not determined.

- 9.2 Other information

- Appearance:	
- Form:	Fluid
- 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.
- Change in condition	
- Softening point/range	
- Oxidising properties	Not determined.
- Evaporation rate	Not determined.

- 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

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.04.2023

Version number 5 (replaces version 4)

Revision: 10.04.2023

Trade name: 1318 - Component A 1320

(Contd. of page 6)

- 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:** Protect from heat and direct sunlight.
- **10.3 Possibility of hazardous reactions** Exothermic polymerisation.
- **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.

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 relevant for classification:

868-77-9 2-hydroxyethyl methacrylate

Oral	LD50	5,050 mg/kg (Rat, male/female)
Dermal	LD50	3,000 mg/kg (Rabbit)

10595-06-9 2-phenoxyethyl methacrylate

Oral	LD50	5,050 mg/kg (Rat, male/female)
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80-15-9 α,α -dimethylbenzyl hydroperoxide

Oral	LD50	382 mg/kg (Rat, male/female)
Dermal	LD50	500 mg/kg (Rat, male/female)
Inhalative	LC50/4 h	1.37 mg/l (Rat, male/female)

79-41-4 methacrylic acid

Oral	LD50	1,320 - 2,260 mg/kg (Rat, male/female)
Dermal	LD50	500 - 1,000 mg/kg (Rabbit)
Inhalative	LC50/4 h	7,100 mg/l (Rat, male/female)

- **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**
Suspected of damaging the unborn child.
- **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.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
Repr. 2

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.04.2023

Version number 5 (replaces version 4)

Revision: 10.04.2023

Trade name: 1318 - Component A 1320

(Contd. of page 7)

- 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:
868-77-9 2-hydroxyethyl methacrylate

LC50/96 h | 213 - 242 mg/l (Pimephales promelas)

- 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: Harmful to fish

- Additional ecological information:
- General notes:

Harmful to 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.

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

UN3082

- 14.2 UN proper shipping name
- ADR

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-phenoxyethyl methacrylate)

- IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-phenoxyethyl methacrylate, cumene hydroperoxide), MARINE POLLUTANT

- IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-phenoxyethyl methacrylate)

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.04.2023

Version number 5 (replaces version 4)

Revision: 10.04.2023

Trade name: 1318 - Component A 1320

(Contd. of page 8)

- 14.3 Transport hazard class(es)**- ADR****- Class**

9 (M6) 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**

III

- 14.5 Environmental hazards:

Product contains environmentally hazardous substances: 2-phenoxyethyl methacrylate

- Marine pollutant:

Symbol (fish and tree)

- 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.

- Hazard identification number (Kemler code):

90

- EMS Number:

F-A,S-F

- Stowage Category

A

- 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

- Transport/Additional information:ADR: SV375
IMDG-Code: 2.10.2.7
IATA-DGR: A197 (375)**- ADR****- Limited quantities (LQ)**

5L

- Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

- Transport category

3

- Tunnel restriction code

(-)

- Remarks:

SV375:

These substances are not subject to the other provisions of ADR / RID if they are transported in individual or composite packaging with a net quantity of no more than 5 l of liquid substances or a net mass of no more than 5 kg of solids per individual or inner packaging, provided that the packaging is used correspond to the general provisions of subsections 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.04.2023

Version number 5 (replaces version 4)

Revision: 10.04.2023

Trade name: 1318 - Component A 1320

(Contd. of page 9)

<p>- IMDG</p> <p>- Limited quantities (LQ)</p> <p>- Excepted quantities (EQ)</p> <p>- Remarks:</p>	<p>5L</p> <p>Code: E1</p> <p>Maximum net quantity per inner packaging: 30 ml</p> <p>Maximum net quantity per outer packaging: 1000 ml</p> <p>2.10.2.7:</p> <p>Marine pollutants in individual packaging or composite packaging with a net quantity per individual or inner packaging of no more than 5 L for liquids or a net mass per individual or inner packaging of no more than 5 kg for solids are not subject to any other provisions of this Code applicable to marine pollutants, provided that the packaging complies with the general Meet the requirements in 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants that also meet the criteria for inclusion in another class, all provisions of this Code that apply to any further hazards continue to apply.</p>
<p>- IATA</p> <p>- Remarks:</p>	<p>A 197 (375):</p> <p>These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.</p>
<p>- UN "Model Regulation":</p>	<p>UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-PHENOXYETHYL METHACRYLATE), 9, III</p>

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

- REGULATION (EU) 2019/1148

- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

- Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

- Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

(Contd. on page 11)

EU-EN

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.04.2023

Version number 5 (replaces version 4)

Revision: 10.04.2023

Trade name: 1318 - Component A 1320

(Contd. of page 10)

- 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

- H242 Heating may cause a fire.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H312 Harmful 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.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

- Version number of previous version: 4

- 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)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Org. Perox. E: Organic peroxides – Type E/F
- Acute Tox. 4: Acute toxicity – Category 4
- Acute Tox. 3: Acute toxicity – Category 3
- Skin Corr. 1A: Skin corrosion/irritation – Category 1A
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Skin Sens. 1: Skin sensitisation – Category 1
- Skin Sens. 1A: Skin sensitisation – Category 1A
- Repr. 2: Reproductive toxicity – 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 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
- Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

- * Data compared to the previous version altered.

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

Printing date 10.04.2023

Version number 5 (replaces version 4)

Revision: 10.04.2023

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

- 1.1 Product identifier

- Trade name: **1319 - Component B 1320**

- 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

Hardening agent / Curing agent

- 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

- Only representative (REACH) and importer (CLP):

Kisling Deutschland GmbH

Salzstraße 15

D-74676 Niedernhall

Tel +49 7940 50961 61

- Further information obtainable from: Product safety department

- Department issuing MSDS: info@kisling.com

- 1.4 Emergency telephone number:

+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

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.

Repr. 2 H361d Suspected of damaging the unborn child.

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 CLP regulation.

- Hazard pictograms



GHS05

GHS07

GHS08

GHS09

- Signal word Danger

- Hazard-determining components of labelling:

2-phenoxyethyl methacrylate

2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide

2-hydroxyethyl methacrylate

mequinol

(Contd. on page 2)

EU-EN

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.04.2023

Version number 5 (replaces version 4)

Revision: 10.04.2023

Trade name: 1319 - Component B 1320

(Contd. of page 1)

- Hazard statements

- H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H317 May cause an allergic skin reaction.
 H361d Suspected of damaging the unborn child.
 H411 Toxic to aquatic life with long lasting effects.

- Precautionary statements

- 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.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P310 Immediately call a POISON CENTER/doctor.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

- Labelling of packages where the contents do not exceed 125 ml**- Hazard pictograms**

GHS05 GHS07 GHS08 GHS09

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

- 2-phenoxyethyl methacrylate
 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide
 2-hydroxyethyl methacrylate
 mequinol

- Hazard statements

- H318 Causes serious eye damage.
 H317 May cause an allergic skin reaction.
 H361d Suspected of damaging the unborn child.

- Precautionary statements

- 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.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P310 Immediately call a POISON CENTER/doctor.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

- 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: 868-77-9	2-hydroxyethyl methacrylate	> 30 - ≤ 50%
EINECS: 212-782-2	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
Index number: 607-124-00-X		
Reg.nr.: 01-2119490169-29-xxxx		

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.04.2023

Version number 5 (replaces version 4)

Revision: 10.04.2023

Trade name: 1319 - Component B 1320

(Contd. of page 2)

CAS: 10595-06-9 EINECS: 234-201-1 Reg.nr.: 01-2120752383-55-xxxx	2-phenoxyethyl methacrylate Repr. 2, H361d; Aquatic Chronic 2, H411; Skin Sens. 1A, H317	≥ 25 - ≤ 30%
CAS: 41637-38-1 EC number: 609-946-4	Ethoxylated Bisphenol-A Dimethacrylate Aquatic Chronic 4, H413	> 5 - ≤ 15%
CAS: 1187441-10-6 EC number: 810-703-1 Reg.nr.: 01-2120140608-57-xxxx	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide Eye Dam. 1, H318; Skin Sens. 1B, H317	≥ 3 - ≤ 5%
CAS: 150-76-5 EINECS: 205-769-8 Index number: 604-044-00-7	mequinol Repr. 2, H361d; Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥ 0.1 - < 1%
CAS: 99-97-8 EINECS: 202-805-4 Index number: 612-056-00-9 Reg.nr.: 01-2119956633-31-xxxx	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: 92-84-2 EINECS: 202-196-5	phenothiazine STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Sens. 1, H317	≥ 0.1 - < 0.25%
CAS: 26741-53-7	3,9-Bis(2,4-di-tert.-butyl phenoxy)-2,4,8,10-tetroxa-3,9-diphosphaspiro[5.5]undecane Aquatic Chronic 1, H410	≥ 0.025 - < 0.25%

- **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.

- 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 immediately 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:** 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.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.04.2023

Version number 5 (replaces version 4)

Revision: 10.04.2023

Trade name: 1319 - Component B 1320

(Contd. of page 3)

- **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.
Ensure adequate ventilation
- **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.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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**
Ensure good ventilation/exhaustion at the workplace.
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.
No special measures required.
- **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 foodstuffs.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **Storage class (TRGS 510, Storage of hazardous substances in non-stationary containers):** 10-13
- **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:

868-77-9 2-hydroxyethyl methacrylate
MAK (Germany) vgl. Abschn. IIb
92-84-2 phenothiazine
MAK (Germany) vgl. Abschn. IIb und Xc

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

(Contd. on page 5)

EU-EN

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.04.2023

Version number 5 (replaces version 4)

Revision: 10.04.2023

Trade name: 1319 - Component B 1320

(Contd. of page 4)

- 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.

Do not inhale gases / fumes / aerosols.

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 through 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 physical and chemical properties

- **General Information**

- **Physical state**

Fluid

- **Colour:**

Black

- **Odour:**

Characteristic

- **Odour threshold:**

Not determined.

- **Melting point/freezing point:**

Undetermined.

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

> 35 °C

- **Flammability**

Not applicable.

- **Lower and upper explosion limit**

- **Lower:**

Not determined.

- **Upper:**

Not determined.

- **Flash point:**

> 100 °C

- **Decomposition temperature:**

Not determined.

- **pH**

Not determined.

- **Viscosity:**

- **Kinematic viscosity**

Not determined.

- **Kinematic viscosity**

- **Dynamic at 20 °C:**

4,000 mPas

- **Solubility**

- **water:**

Not miscible or difficult to mix.

- **Partition coefficient n-octanol/water (log value)**

Not determined.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.04.2023

Version number 5 (replaces version 4)

Revision: 10.04.2023

Trade name: 1319 - Component B 1320

(Contd. of page 5)

- Vapour pressure:	Not determined.
- Vapour pressure:	
- Density and/or relative density	
- Density at 20 °C:	1.06 g/cm ³
- Relative density	Not determined.
- Vapour density	Not determined.

- 9.2 Other information

- Appearance:	
- Form:	Fluid
- 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.
- Change in condition	
- Softening point/range	
- Oxidising properties	Not determined.
- Evaporation rate	Not determined.

- 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
- Thermal decomposition / conditions to be avoided: Protect from heat and direct sunlight.
- 10.3 Possibility of hazardous reactions Exothermic polymerisation.
- 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.

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.

(Contd. on page 7)

EU-EN

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.04.2023

Version number 5 (replaces version 4)

Revision: 10.04.2023

Trade name: 1319 - Component B 1320

(Contd. of page 6)

- LD/LC50 values relevant for classification:**868-77-9 2-hydroxyethyl methacrylate**

Oral	LD50	5,050 mg/kg (Rat, male/female)
Dermal	LD50	3,000 mg/kg (Rabbit)

10595-06-9 2-phenoxyethyl methacrylate

Oral	LD50	5,050 mg/kg (Rat, male/female)
------	------	--------------------------------

99-97-8 N,N-dimethyl-p-toluidine

Inhalative	LC50/4 h	1.4 mg/l (Rat, male/female)
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- **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** Suspected of damaging the unborn child.
- **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.

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Repr. 2

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

LC50/96 h	213 - 242 mg/l (Pimephales promelas)
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- **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.
- **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.

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.04.2023

Version number 5 (replaces version 4)

Revision: 10.04.2023

Trade name: 1319 - Component B 1320

(Contd. of page 7)

- **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

UN3082

- 14.2 UN proper shipping name

- ADR

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-phenoxyethyl methacrylate)

- IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-phenoxyethyl methacrylate, 3,9-Bis(2,4-di-tert.-butyl phenoxy)-2,4,8,10-tetroxa-3,9-diphosphaspiro[5.5]undecane), MARINE POLLUTANT

- IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-phenoxyethyl methacrylate)

- 14.3 Transport hazard class(es)

- ADR



- Class

9 (M6) 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

III

- 14.5 Environmental hazards:

Product contains environmentally hazardous substances: 2-phenoxyethyl methacrylate

- Marine pollutant:

Symbol (fish and tree)

- 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.

- Hazard identification number (Kemler code):

90

- EMS Number:

F-A,S-F

- Stowage Category

A

(Contd. on page 9)

EU-EN

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.04.2023

Version number 5 (replaces version 4)

Revision: 10.04.2023

Trade name: 1319 - Component B 1320

(Contd. of page 8)

- 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

- Transport/Additional information:

ADR: SV375
 IMDG-Code: 2.10.2.7
 IATA-DGR: A197 (375)

- ADR

- Limited quantities (LQ)
- Excepted quantities (EQ)

5L
 Code: E1
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 1000 ml

- Transport category
- Tunnel restriction code
- Remarks:

3
 (-)
 SV375:
 These substances are not subject to the other provisions of ADR / RID if they are transported in individual or composite packaging with a net quantity of no more than 5 l of liquid substances or a net mass of no more than 5 kg of solids per individual or inner packaging, provided that the packaging is used correspond to the general provisions of subsections 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

- IMDG

- Limited quantities (LQ)
- Excepted quantities (EQ)

5L
 Code: E1
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 1000 ml

- Remarks:

2.10.2.7:
 Marine pollutants in individual packaging or composite packaging with a net quantity per individual or inner packaging of no more than 5 L for liquids or a net mass per individual or inner packaging of no more than 5 kg for solids are not subject to any other provisions of this Code applicable to marine pollutants, provided that the packaging complies with the general Meet the requirements in 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants that also meet the criteria for inclusion in another class, all provisions of this Code that apply to any further hazards continue to apply.

- IATA
- Remarks:

A 197 (375):
 These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

- UN "Model Regulation":

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-PHENOXYETHYL METHACRYLATE), 9, III

EU-EN

(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.04.2023

Version number 5 (replaces version 4)

Revision: 10.04.2023

Trade name: 1319 - Component B 1320

(Contd. of page 9)

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

- REGULATION (EU) 2019/1148

- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

- Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

- Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

- 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

- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- 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.
- H351 Suspected of causing cancer.
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- 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.
- H412 Harmful to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

- Version number of previous version: 4

- 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)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent

(Contd. on page 11)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.04.2023

Version number 5 (replaces version 4)

Revision: 10.04.2023

Trade name: 1319 - Component B 1320

(Contd. of page 10)

PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 2: Acute toxicity – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Skin Sens. 1B: Skin sensitisation – Category 1B
Carc. 2: Carcinogenicity – Category 2
Repr. 2: Reproductive toxicity – Category 2
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
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
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

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

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