

10.04.2023

Kit Components

Product code	Description
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KIS 1925-200801	1925
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Components:

KIS 1923-200801	1923 - Component A 1925
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KIS 1924-200801	1924 - Component B 1925
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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.04.2023

Version number 2 (replaces version 1)

Revision: 10.04.2023

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

- 1.1 Product identifier

- Trade name: **1923 - Component A 1925**

- 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

- 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 Irrit. 2	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
Repr. 1B	H360 May damage fertility or 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



GHS07 GHS08 GHS09

- Signal word Danger

- Hazard-determining components of labelling:

2-phenoxyethyl methacrylate
methacrylic acid, monoester with propane-1,2-diol
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol
2-ethylhexyl methacrylate

- Hazard statements

H315 Causes skin irritation.

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H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
 H360 May damage fertility or the unborn child.
 H411 Toxic to aquatic life with long lasting effects.

- Precautionary statements

P261 Avoid breathing mist/vapours/spray.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER/doctor.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Additional information:

10-30 percent of the mixture consists of one or more ingredients of unknown acute oral toxicity.
 10-30 percent of the mixture consists of one or more ingredients of unknown acute dermal toxicity.
 40-60 percent of the mixture consists of one or more components of unknown acute inhalation toxicity.
 Contains 10-30 % of components with unknown hazards to the aquatic environment.
 Restricted to professional users.

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


GHS07 GHS08 GHS09

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

2-phenoxyethyl methacrylate
 methacrylic acid, monoester with propane-1,2-diol
 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol
 2-ethylhexyl methacrylate

- Hazard statements

H317 May cause an allergic skin reaction.
 H360 May damage fertility or the unborn child.

- Precautionary statements

P261 Avoid breathing mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER/doctor.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- 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

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- Dangerous components:		
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	20-40%
CAS: 27813-02-1 EINECS: 248-666-3 Index number: 607-125-00-5	methacrylic acid, monoester with propane-1,2-diol Eye Irrit. 2, H319; Skin Sens. 1, H317	> 15 - ≤ 30%
CAS: 688-84-6 EINECS: 211-708-6 Index number: 607-134-00-4	2-ethylhexyl methacrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	> 15 - < 20%
CAS: 41637-38-1 EC number: 609-946-4	Ethoxylated Bisphenol-A Dimethacrylate Aquatic Chronic 4, H413	5-10%
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 %	<5%
CAS: 119-47-1 EINECS: 204-327-1 Index number: 604-095-00-5	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol Repr. 1B, H360	≥ 0.3 - ≤ 1%

- The product may contain:

CAS: 107-13-1 EINECS: 203-466-5 Index number: 608-003-00-4	acrylonitrile Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Carc. 1B, H350; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335
CAS: 106-99-0 EINECS: 203-450-8 Index number: 601-013-00-X	1,3-butadiene Flam. Gas 1A, H220; Acute Tox. 2, H330; Muta. 1B, H340; Carc. 1A, H350; Press. Gas (Comp.), H280

- SVHC

119-47-1	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol
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- 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.

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- 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:

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

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

Keep receptacles tightly sealed.

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.

Fumes can combine with air to form an explosive mixture.

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- **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.
 - Store away from oxidising agents.
- **Further information about storage conditions:**
 - Store in cool, dry conditions in well sealed receptacles.
 - Store receptacle in a well ventilated area.
 - Protect from heat and direct sunlight.
 - Protect from frost.
- **Maximum storage temperature:** 28 °C
- **Storage class (TRGS 510, Storage of hazardous substances in non-stationary containers):** 6.1 C
- **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:**

80-15-9 α,α -dimethylbenzyl hydroperoxide

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

- **DNELs**

27813-02-1 methacrylic acid, monoester with propane-1,2-diol

Dermal | Longterm System | 4.2 mg/kg bw/day (General population)

- **PNECs**

27813-02-1 methacrylic acid, monoester with propane-1,2-diol

Oral	PNEC oral	mg/kg Food (General population) Kein Bioaccumulationspotenzial
	PNEC Freshwater	0.904 mg/l (General population)
	PNEC Freshwater sed	6.28 mg/kg (General population)
	PNEC Marinewater	0.904 mg/l (General population)
	PNEC Soil	0.727 mg/kg (General population)
	PNEC STP	10 mg/l (General population)
	PNEC Marinewater sed	6.28 mg/kg (General population)

- **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 (EN 141)
- **Hand protection**
 - Protective gloves (EN 374)
 - Check protective gloves prior to each use for their proper condition.

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

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

- Material of gloves

Find below a list of appropriate protective gloves for chemical surrounding:

Permeation time / penetration time: = 480 minutes (DIN EN 374):

Naturlatex I , Nr. 0395 oder 0403

Chloropren Nitril II, Nr. 0717

Chloropren Nitril I, Nr. 0727

Nitril I, Nr. 0730, 0732, 0733, 0736, 0737, 0738, 0739 oder 0836

Viton, Nr. 0890

Butyl II, Nr. 0897

Butyl, Nr. 0898

Permeation time / penetration time: = 240 minutes (DIN EN 374):

Nitril VI, Nr. 0754

of KCL company (e-mail: vertrieb@kcl.de).

The recommendation is based exclusively on the chemical compatibility and the test according to EN374 under laboratory conditions.

Requirements can vary according to the use. Therefore, please always take into account the glove supplier's recommendations.

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

Permeation time / penetration time: see above (material of gloves)

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 physical and chemical properties
- General Information

- Colour:	Yellow
- Odour:	Light
- Odour threshold:	Not determined.
- Melting point/freezing point:	Undetermined.
- Boiling point or initial boiling point and boiling range	Undetermined.
- 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:	20,000 mPas
- Solubility	
- water:	Not miscible or difficult to mix.

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- Partition coefficient n-octanol/water (log value)	Not determined.
- Vapour pressure:	Not determined.
- Vapour pressure:	
- Density and/or relative density	
- Density at 20 °C:	1 g/cm ³
- Relative density	Not determined.
- Vapour density	Not determined.

- 9.2 Other information	
- Appearance:	
- Form:	Viscous
- 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:**
No decomposition if used and stored according to specifications.
Protect from heat and direct sunlight.
- **10.3 Possibility of hazardous reactions**
Reacts with peroxides and other radical forming substances.
Reacts with strong alkali.
Reacts with strong acids.
Reacts with amines.
Forms explosive gas mixture with air.
Exothermic polymerisation.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.

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- 10.6 Hazardous decomposition products:

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:
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)
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Dermal	LD50	500 mg/kg (Rat, male/female)
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Inhalative	LC50/4 h	1.37 mg/l (Rat, male/female)
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- Skin corrosion/irritation

Causes skin irritation.

- Serious eye damage/irritation

Causes serious eye irritation.

- Respiratory or skin sensitisation

May cause an allergic skin reaction.

- Germ cell mutagenicity Based on available data, the classification criteria are not met.

- Carcinogenicity Based on available data, the classification criteria are not met.

- Reproductive toxicity

May damage fertility or 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. 1B

- 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.

- 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.

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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**

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), 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):**

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- **EMS Number:**

F-A,S-F

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- 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.
- IMDG	
- 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
- 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.

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

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H242 Heating may cause a fire.
- H280 Contains gas under pressure; may explode if heated.
- H301 Toxic if swallowed.
- 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.
- H330 Fatal if inhaled.
- H331 Toxic if inhaled.
- H335 May cause respiratory irritation.
- H340 May cause genetic defects.
- H350 May cause cancer.
- H360 May damage fertility or the unborn child.
- H361d Suspected of damaging the unborn child.

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

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: 1

- 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

SVHC: Substances of Very High Concern

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. 1B: Skin corrosion/irritation – Category 1B

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

Skin Sens. 1A: Skin sensitisation – Category 1A

Repr. 1B: Reproductive toxicity – Category 1B

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

- 1.1 Product identifier

- Trade name: **1924 - Component B 1925**

- 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

- 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-hydroxyethylester, phosphate
methacrylic acid, monoester with propane-1,2-diol
2-ethylhexyl methacrylate

- Hazard statements

H315 Causes skin irritation.

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- 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 mist/vapours/spray.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER/doctor.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Additional information:

- 10-30 percent of the mixture consists of one or more ingredients of unknown acute oral toxicity.
 10-30 percent of the mixture consists of one or more ingredients of unknown acute dermal toxicity.
 50-70 percent of the mixture consists of one or more components of unknown acute inhalation toxicity.
 Contains 10-30 % of components with unknown hazards to the aquatic environment.

- 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-hydroxyethylester, phosphate
 methacrylic acid, monoester with propane-1,2-diol
 2-ethylhexyl methacrylate

- 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 mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER/doctor.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- 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

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- Dangerous components:		
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	20-40%
CAS: 27813-02-1 EINECS: 248-666-3 Index number: 607-125-00-5	methacrylic acid, monoester with propane-1,2-diol Eye Irrit. 2, H319; Skin Sens. 1, H317	> 15 - ≤ 30%
CAS: 688-84-6 EINECS: 211-708-6 Index number: 607-134-00-4	2-ethylhexyl methacrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	≥ 10 - ≤ 15%
CAS: 41637-38-1 EC number: 609-946-4	Ethoxylated Bisphenol-A Dimethacrylate Aquatic Chronic 4, H413	> 5 - ≤ 15%
CAS: 52628-03-2 EINECS: 258-053-2	2-Propenoic acid, 2-methyl-, 2-hydroxyethylester, phosphate Eye Dam. 1, H318; Skin Irrit. 2, H315	≥ 3 - ≤ 5%
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: 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: 868-77-9 EINECS: 212-782-2 Index number: 607-124-00-X Reg.nr.: 01-2119490169-29-xxxx	2-hydroxyethyl methacrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	≥ 0.1 - < 1%

- The product may contain:

CAS: 107-13-1 EINECS: 203-466-5 Index number: 608-003-00-4	acrylonitrile Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Carc. 1B, H350; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335
CAS: 106-99-0 EINECS: 203-450-8 Index number: 601-013-00-X	1,3-butadiene Flam. Gas 1A, H220; Acute Tox. 2, H330; Muta. 1B, H340; Carc. 1A, H350; Press. Gas (Comp.), H280

- 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.

- 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.

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- 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

Keep receptacles tightly sealed.

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: 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.

Protect from heat and direct sunlight.

- 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.

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SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters

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

92-84-2 phenothiazine

MAK (Germany) | vgl. Abschn. IIb und Xc

868-77-9 2-hydroxyethyl methacrylate

MAK (Germany) | vgl. Abschn. IIb

- DNELs

27813-02-1 methacrylic acid, monoester with propane-1,2-diol

Dermal | Longterm System | 4.2 mg/kg bw/day (General population)

- PNECs

27813-02-1 methacrylic acid, monoester with propane-1,2-diol

Oral	PNEC oral	mg/kg Food (General population) Kein Bioaccumulationspotenzial
	PNEC Freshwater	0.904 mg/l (General population)
	PNEC Freshwater sed	6.28 mg/kg (General population)
	PNEC Marinewater	0.904 mg/l (General population)
	PNEC Soil	0.727 mg/kg (General population)
	PNEC STP	10 mg/l (General population)
	PNEC Marinewater sed	6.28 mg/kg (General population)

- **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 (EN 141)

- 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.

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

- Material of gloves

Find below a list of appropriate protective gloves for chemical surrounding:

Permeation time / penetration time: = 480 minutes (DIN EN 374):

Naturlatex I, Nr. 0395 oder 0403

Chloropren Nitril II, Nr. 0717

Chloropren Nitril I, Nr. 0727

Viton, Nr. 0890

Butyl II, Nr. 0897

Butyl, Nr. 0898

Permeation time / penetration time: = 240 minutes (DIN EN 374):

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Nitril VI, Nr. 0754

of KCL company (e-mail: vertrieb@kcl.de).

The recommendation is based exclusively on the chemical compatibility and the test according to EN374 under laboratory conditions.

Requirements can vary according to the use. Therefore, please always take into account the glove supplier's recommendations.

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

Permeation time / penetration time: see above (material of gloves)

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

- Colour:	Grey
- Odour:	Light
- Odour threshold:	Not determined.
- Melting point/freezing point:	Undetermined.
- Boiling point or initial boiling point and boiling range	Undetermined.
- 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:	20,000 mPas
- 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 at 20 °C:	1 g/cm ³
- Relative density	Not determined.
- Vapour density	Not determined.

- 9.2 Other information

- Appearance:	
- Form:	Viscous
- 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.

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- | | |
|-------------------------|-----------------|
| - 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:**
No decomposition if used and stored according to specifications.
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:

10595-06-9 2-phenoxyethyl methacrylate

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

868-77-9 2-hydroxyethyl methacrylate

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

Dermal	LD50	3,000 mg/kg (Rabbit)
--------	------	----------------------

- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.

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- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**
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 (carcinogenity, 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)

- **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.
- **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

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- 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), 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

- 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

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<p>- Tunnel restriction code</p> <p>- Remarks:</p>	<p>(-)</p> <p>SV375:</p> <p>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.</p>
<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.

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- 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

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- 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.
- H331 Toxic if inhaled.
- H335 May cause respiratory irritation.
- H340 May cause genetic defects.
- H350 May cause 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: 1
- 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
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

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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 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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