

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

1.1. Product identifier

Product form : Mixture
Trade name : Chimfix, comp A

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Professional use, Consumer use
Use of the substance/mixture : Adhesive: component

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Rectavit N.V. N.V.
Ambachtenlaan 4
9080 Lochristi
Belgium
T +32 9 216 85 20, F +32 9 216 85 30
msds@rectavit.be, www.Rectavit.be

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Belgium	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Militaire Reine Astrid	Rue Bruyn 1 1120 Brussels	+32 70 245 245	Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



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	GHS07
Signal word (CLP)	: Warning
Contains	: tetramethylene dimethacrylate; methacrylic acid, monoester with propane-1,2-diol; reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]
Hazard statements (CLP)	: H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P261 - Avoid breathing vapours. P280 - Wear protective gloves. P273 - Avoid release to the environment. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P501 - Dispose of contents, container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
tetramethylene dimethacrylate (2082-81-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
vinyltoluene (25013-15-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
methacrylic acid, monoester with propane-1,2-diol (27813-02-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate (6846-50-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
1,4-naphthoquinone (130-15-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
tetramethylene dimethacrylate	CAS-No.: 2082-81-7 EC-No.: 218-218-1 REACH-no: 01-2119967415-30	$\geq 5 - < 25$	Skin Sens. 1B, H317
vinyltoluene substance with national workplace exposure limit(s) (BE)	CAS-No.: 25013-15-4 EC-No.: 246-562-2 REACH-no: 01-2119622074-50	$\geq 1 - < 6$	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
methacrylic acid, monoester with propane-1,2-diol	CAS-No.: 27813-02-1 EC-No.: 248-666-3 REACH-no: 01-2119490226-37	< 2.5	Skin Sens. 1, H317 Eye Irrit. 2, H319
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	CAS-No.: 6846-50-0 EC-No.: 229-934-9 REACH-no: 01-2119451093-47	< 1	Repr. 2, H361 Aquatic Chronic 3, H412
1,1'-(p-tolylimino)dipropan-2-ol	CAS-No.: 38668-48-3 EC-No.: 254-075-1 REACH-no: 01-2119980937-17	< 1	Acute Tox. 2 (Oral), H300 (ATE=27,5 mg/kg bodyweight) Eye Irrit. 2, H319 Aquatic Chronic 3, H412
reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and ethanol 2-[[2-(2-hydroxyethoxy)ethyl]](4-methylphenyl)amino]	EC-No.: 911-490-9 REACH-no: 01-2119979579-10	< 1	Acute Tox. 4 (Oral), H302 (ATE=619 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412
1,4-naphthoquinone	CAS-No.: 130-15-4 EC-No.: 204-977-6 REACH-no: 01-2120760462-57	< 0,1	Acute Tox. 3 (Oral), H301 (ATE=124 mg/kg bodyweight) Acute Tox. 1 (Inhalation), H330 (ATE=0,005 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Get medical advice/attention if you feel unwell.

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

Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.
Unsuitable extinguishing media : high volume water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Clean contaminated surfaces with an excess of water. Dispose of the material collected according to regulations. Wash clothing and equipment after handling.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Protect from sunlight.
Incompatible products : Heat sources.
Maximum storage period : ≈ 1 year
Packaging materials : Synthetic material.

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

vinyltoluene (25013-15-4)	
Belgium - Occupational Exposure Limits	
OEL TWA	246 mg/m ³
	50 ppm
OEL STEL	490 mg/m ³
	100 ppm

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

tetramethylene dimethacrylate (2082-81-7)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	4,2 mg/kg bw/day
Long-term - systemic effects, inhalation	14,5 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	2,5 mg/kg bw/day
Long-term - systemic effects, inhalation	4,3 mg/m ³
Long-term - systemic effects, dermal	2,5 mg/kg bw/day
PNEC (Water)	
PNEC aqua (freshwater)	0,043 mg/l
PNEC aqua (marine water)	0,004 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	3,12 mg/kg dwt
PNEC sediment (marine water)	0,312 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,573 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	2 mg/l

methacrylic acid, monoester with propane-1,2-diol (27813-02-1)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	4,2 mg/kg bw/day
Long-term - systemic effects, inhalation	14,7 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	2,5 mg/kg bw/day
Long-term - systemic effects, inhalation	4,35 mg/m ³

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methacrylic acid, monoester with propane-1,2-diol (27813-02-1)	
Long-term - systemic effects, dermal	2,5 mg/kg bw/day
PNEC (Water)	
PNEC aqua (freshwater)	0,904 mg/l
PNEC aqua (marine water)	0,904 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	6,28 mg/kg dwt
PNEC sediment (marine water)	6,28 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,727 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate (6846-50-0)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	5 mg/kg bw/day
Long-term - systemic effects, inhalation	17,62 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	5 mg/kg bw/day
Long-term - systemic effects, inhalation	4,35 mg/m ³
Long-term - systemic effects, dermal	5 mg/kg bw/day
PNEC (Water)	
PNEC aqua (freshwater)	0,014 mg/l
PNEC aqua (marine water)	0,001 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	5,29 mg/kg dwt
PNEC sediment (marine water)	0,529 mg/kg dwt
PNEC (Soil)	
PNEC soil	1,05 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	83,3 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	3 mg/l
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0,7 mg/kg bw/day
Long-term - systemic effects, inhalation	2,47 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0,25 mg/kg bw/day

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1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
PNEC (Water)	
PNEC aqua (freshwater)	0,017 mg/l
PNEC aqua (marine water)	0,0017 mg/l
PNEC aqua (intermittent, freshwater)	170 µg/L
PNEC (Sediment)	
PNEC sediment (freshwater)	0,0782 mg/kg dwt
PNEC sediment (marine water)	0,00782 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,005 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	199,5 mg/l
1,4-naphthoquinone (130-15-4)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	0,033 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	26,1 ng/l
PNEC aqua (marine water)	2,61 ng/l
PNEC (Sediment)	
PNEC sediment (freshwater)	321
PNEC sediment (marine water)	32,1
PNEC (Soil)	
PNEC soil	49
PNEC (STP)	
PNEC sewage treatment plant	0,172 mg/l
reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	1,4 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	9,8 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0,83 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2,9 mg/m ³
Long-term - systemic effects, dermal	0,83 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,048 mg/l
PNEC aqua (marine water)	0,0048 mg/l
PNEC aqua (intermittent, freshwater)	0,48 mg/l

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reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]

PNEC (Sediment)

PNEC sediment (freshwater) 1,2 mg/kg dwt

PNEC sediment (marine water) 0,12 mg/kg dwt

PNEC (Soil)

PNEC soil 0,21 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant 10 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses (EN 166)

8.2.2.2. Skin protection

Skin and body protection:

Protective clothing (EN 14605 or EN 13034)

Hand protection:

Protective gloves against chemicals (EN 374)

Hand protection

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR)	6 (> 480 minutes)	>0.2 mm		

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: light beige.
Appearance	: Pasty.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not applicable
Boiling point	: Not available
Flammability	: Non flammable.
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Solubility	: Insoluble.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 1,72 g/cm ³ (20°C)
Relative density	: Not available
Relative vapour density at 20°C	: Not applicable
Particle size	: Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : ≈ 2,8 % (DIN EN ISO 11890-2)

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

tetramethylene dimethacrylate (2082-81-7)	
LD50 oral rat	10066 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 3000 mg/kg bodyweight (Rabbit, Read-across, Dermal)

vinyltoluene (25013-15-4)	
LC50 Inhalation - Rat	17,8 mg/l

methacrylic acid, monoester with propane-1,2-diol (27813-02-1)	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, 24 h, Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	> 5000 mg/kg bodyweight (24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate (6846-50-0)	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))

1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
LD50 oral	27,5 mg/kg
LD50 dermal rat	> 2000 mg/kg bw/day (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))

1,4-naphthoquinone (130-15-4)	
LD50 oral rat	124 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LC50 Inhalation - Rat	0,046 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))

reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]	
LD50 oral rat	619 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: EU Method B.1 (Acute Toxicity (Oral)), Remarks on results: other., 95% CL: 305 - 1256
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other:

Skin corrosion/irritation : Not classified

vinyltoluene (25013-15-4)	
pH	No data available in the literature

methacrylic acid, monoester with propane-1,2-diol (27813-02-1)	
pH	No data available in the literature

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1-isopropyl-2,2-dimethyltrimethylene diisobutyrate (6846-50-0)	
pH	No data available in the literature
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
pH	No data available in the literature
Serious eye damage/irritation	: Not classified
vinyltoluene (25013-15-4)	
pH	No data available in the literature
methacrylic acid, monoester with propane-1,2-diol (27813-02-1)	
pH	No data available in the literature
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate (6846-50-0)	
pH	No data available in the literature
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
pH	No data available in the literature
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
1,4-naphthoquinone (130-15-4)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
vinyltoluene (25013-15-4)	
LOAEL (oral, rat, 90 days)	50 mg/kg bodyweight Animal: rat
NOAEC (inhalation, rat, gas, 90 days)	60 ppm Animal: rat, Remarks on results: other:
reaction mass of 2,2'-[[4-methylphenyl]imino]bisethanol and ethanol 2-[[2-(2-hydroxyethoxy)ethyl]-(4-methylphenyl)amino]	
NOAEL (oral, rat, 90 days)	100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral)), Guideline: other:
Aspiration hazard	: Not classified
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Viscosity, kinematic	Not applicable
tetramethylene dimethacrylate (2082-81-7)	
Viscosity, kinematic	5,29 mm ² /s (20 °C, OECD 114: Viscosity of Liquids)
vinyltoluene (25013-15-4)	
Viscosity, kinematic	No data available in the literature
methacrylic acid, monoester with propane-1,2-diol (27813-02-1)	
Viscosity, kinematic	8,88 mm ² /s (20 °C, OECD 114: Viscosity of Liquids)
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate (6846-50-0)	
Viscosity, kinematic	No data available in the literature

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1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)

Viscosity, kinematic Not applicable (solid)

reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]

Viscosity, kinematic 2519,82 mm²/s

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

Not rapidly degradable

tetramethylene dimethacrylate (2082-81-7)

ErC50 algae 9,79 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)

vinyltoluene (25013-15-4)

LC50 - Fish [1] 5,2 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Semi-static system, Fresh water, Experimental value, Lethal)

EC50 - Crustacea [1] 9,3 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Experimental value, Locomotor effect)

ErC50 algae 0,319 mg/l (OECD201: Freshwater Alga and Cyanobacteria, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Experimental value)

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

LC50 - Fish [1] 493 mg/l (DIN 38412-15, 48 h, Leuciscus idus, Static system, Fresh water, Experimental value, GLP)

EC50 - Crustacea [1] > 143 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, Locomotor effect)

ErC50 algae > 97,2 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate (6846-50-0)

LC50 - Fish [1] > 1,55 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Experimental value, Greater than the water solubility)

EC50 - Crustacea [1] > 1,46 mg/l (Equivalent or similar to EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Greater than the water solubility)

ErC50 algae > 7,49 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Greater than the water solubility)

1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)

LC50 - Fish [1] 17 mg/l (Other, 96 h, Danio rerio, Static system, Fresh water, Experimental value, Nominal concentration)

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1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
EC50 - Crustacea [1]	28,8 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	245 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Salt water, Experimental value, GLP)
1,4-naphthoquinone (130-15-4)	
LC50 - Fish [1]	0,045 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oryzias latipes, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	0,026 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, GLP)
ErC50 algae	0,42 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Cyprinus carpio
EC50 - Crustacea [1]	48 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

12.2. Persistence and degradability

tetramethylene dimethacrylate (2082-81-7)	
Persistence and degradability	Readily biodegradable in water.
vinyltoluene (25013-15-4)	
Persistence and degradability	not readily degradable in water.
Chemical oxygen demand (COD)	2,88 g O ₂ /g substance
ThOD	3,12 g O ₂ /g substance
methacrylic acid, monoester with propane-1,2-diol (27813-02-1)	
Persistence and degradability	Readily biodegradable in water.
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate (6846-50-0)	
Persistence and degradability	Readily biodegradable in water.
ThOD	2,4 g O ₂ /g substance
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
Persistence and degradability	Not readily biodegradable in water.
1,4-naphthoquinone (130-15-4)	
Persistence and degradability	Not readily biodegradable in water.

12.3. Bioaccumulative potential

tetramethylene dimethacrylate (2082-81-7)	
Partition coefficient n-octanol/water (Log Pow)	3,1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

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vinyltoluene (25013-15-4)	
BCF - Other aquatic organisms [1]	86,74 l/kg (BCFBAF v3.01, QSAR, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	3,44 (QSAR, KOWWIN)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
methacrylic acid, monoester with propane-1,2-diol (27813-02-1)	
Partition coefficient n-octanol/water (Log Pow)	0,97 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate (6846-50-0)	
BCF - Fish [1]	5340 (OECD 305: Bioconcentration: Flow-Through Fish Test, 23 day(s), Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, GLP)
Partition coefficient n-octanol/water (Log Pow)	4,04 – 4,91 (QSAR, 25 °C)
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
Partition coefficient n-octanol/water (Log Pow)	2,1 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 24 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
1,4-naphthoquinone (130-15-4)	
Partition coefficient n-octanol/water (Log Pow)	1,77 (Weight of evidence approach, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
12.4. Mobility in soil	
tetramethylene dimethacrylate (2082-81-7)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1,89 – 2,51 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Low potential for adsorption in soil.
vinyltoluene (25013-15-4)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2,985 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Low potential for adsorption in soil.
methacrylic acid, monoester with propane-1,2-diol (27813-02-1)	
Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1,9 (log Koc, Calculated value)
Ecology - soil	Highly mobile in soil.
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate (6846-50-0)	
Surface tension	27,8 mN/m (22 °C, 100 vol %, EU Method A.5: Surface tension)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3,6 (log Koc, QSAR)
Ecology - soil	Low potential for mobility in soil.

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1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0,9185 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.
1,4-naphthoquinone (130-15-4)	
Surface tension	72,6 mN/m (20 °C, ≤ 0.57 g/l, OECD 115: Surface Tension of Aqueous Solutions)
Ecology - soil	No (test)data on mobility of the substance available.

12.5. Results of PBT and vPvB assessment

Component	
tetramethylene dimethacrylate (2082-81-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
vinyltoluene (25013-15-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
methacrylic acid, monoester with propane-1,2-diol (27813-02-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate (6846-50-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
1,4-naphthoquinone (130-15-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Do not discharge into drains or the environment.
Ecological information	: Avoid release to the environment.
European List of Waste (LoW, EC 2000/532)	: 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances 15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID /

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

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ADR	IMDG	IATA	ADN	RID
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(a)	vinyltoluene	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F

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EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	tetramethylene dimethacrylate ; vinyltoluene ; methacrylic acid, monoester with propane-1,2-diol ; 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate ; reaction mass of 2,2'-[[4-methylphenyl)imino]bisethanol and ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	vinyltoluene ; 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate ; reaction mass of 2,2'-[[4-methylphenyl)imino]bisethanol and ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

VOC Directive (2004/42)

VOC content : $\approx 2,8\%$ (DIN EN ISO 11890-2)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
3.2		Modified	

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified

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Abbreviations and acronyms:	
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Acute Tox. 1 (Inhalation)	Acute toxicity (inhal.), Category 1
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
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.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
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.
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Skin Sens. 1	H317	Calculation method
Aquatic Chronic 3	H412	Calculation method

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.