

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version	Revision Date:	SDS Number:	Date of last issue: 19.08.2024
2.2	21.11.2024	11266696-00004	Date of first issue: 01.09.2023

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

1.1 Product identifier

Trade name : KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Product code : 0893480002 (A)

Unique Formula Identifier (UFI) : 16RE-N01P-M00M-F33H

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

Use of the Sub-stance/Mixture : Adhesives
Professional use product

Recommended restrictions on use : Not applicable

1.3 Details of the supplier of the safety data sheet

Company : Adolf Wuerth GmbH & Co. KG
Reinhold-Würth-Str. 12-17
74653 Künzelsau

Telephone : +49 794015 0

Telefax : +49 794015 10 00

E-mail address of person responsible for the SDS : isi@wuerth.com

1.4 Emergency telephone number

+49 (0)6132 – 84463

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 1B	H360Df: May damage the unborn child. Suspected

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878




KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version	Revision Date:	SDS Number:	Date of last issue: 19.08.2024
2.2	21.11.2024	11266696-00004	Date of first issue: 01.09.2023

	of damaging fertility.
Specific target organ toxicity - single exposure, Category 3	H335: May cause respiratory irritation.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms : 

Signal word : Danger

Hazard statements : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H360Df May damage the unborn child. Suspected of damaging fertility.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P261 Avoid breathing vapours.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Hazardous components which must be listed on the label:

Tetrahydrofurfuryl methacrylate
2-Ethylhexyl methacrylate
[2-[(2-Methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate
Succinic anhydride
Methyl methacrylate
2-Hydroxyethyl methacrylate

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version 2.2 Revision Date: 21.11.2024 SDS Number: 11266696-00004 Date of last issue: 19.08.2024
Date of first issue: 01.09.2023

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Tetrahydrofurfuryl methacrylate	2455-24-5 219-529-5 01-2120748481-53	Skin Sens. 1; H317 Repr. 1B; H360Df STOT SE 3; H335 Aquatic Chronic 3; H412	>= 30 - < 50
2-Ethylhexyl methacrylate	688-84-6 211-708-6 607-134-00-4 01-2119490166-35	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317 STOT SE 3; H335 Aquatic Chronic 3; H412 specific concentration limit STOT SE 3; H335 >= 10 %	>= 10 - < 20
[2-[(2-Methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate	20882-04-6 244-096-4	Eye Dam. 1; H318 Skin Sens. 1; H317	>= 3 - < 10
Succinic anhydride	108-30-5 203-570-0 607-103-00-5 01-2119485841-30	Acute Tox. 4; H302 Skin Corr. 1; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1B; H317 EUH071 Acute toxicity esti- mate	>= 0,1 - < 1

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version 2.2 Revision Date: 21.11.2024 SDS Number: 11266696-00004 Date of last issue: 19.08.2024
Date of first issue: 01.09.2023

		Acute oral toxicity: 1.510,5 mg/kg	
2-Hydroxyethyl methacrylate	868-77-9 212-782-2 607-124-00-X	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	$\geq 0,1 - < 1$
Methyl methacrylate	80-62-6 201-297-1 607-035-00-6	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335	$\geq 0,1 - < 1$
Styrene	100-42-5 202-851-5 601-026-00-0 01-2119457861-32	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 2; H361d STOT SE 3; H335 STOT RE 1; H372 (Auditory system) Asp. Tox. 1; H304 Aquatic Chronic 3; H412 Acute toxicity estimate Acute inhalation toxicity (vapour): 11,8 mg/l	$\geq 0,1 - < 0,25$

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- If inhaled : If inhaled, remove to fresh air.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
Get medical attention.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water.
Remove contaminated clothing and shoes.
Get medical attention.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version	Revision Date:	SDS Number:	Date of last issue: 19.08.2024
2.2	21.11.2024	11266696-00004	Date of first issue: 01.09.2023

Wash clothing before reuse.
Thoroughly clean shoes before reuse.

In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
If easy to do, remove contact lens, if worn.
Get medical attention immediately.

If swallowed : If swallowed, DO NOT induce vomiting.
Get medical attention.
Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
May cause respiratory irritation.
May damage the unborn child. Suspected of damaging fertility.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Vapours may form explosive mixtures with air.
Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version	Revision Date:	SDS Number:	Date of last issue: 19.08.2024
2.2	21.11.2024	11266696-00004	Date of first issue: 01.09.2023

Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material.
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : If sufficient ventilation is unavailable, use with local exhaust ventilation.

Advice on safe handling : Do not get on skin or clothing.
Do not breathe vapours.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version	Revision Date:	SDS Number:	Date of last issue: 19.08.2024
2.2	21.11.2024	11266696-00004	Date of first issue: 01.09.2023

Do not swallow.
Do not get in eyes.
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
Keep container tightly closed.
Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitisers.
Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace.
Wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations.

Advice on common storage : Do not store with the following product types:
Strong oxidizing agents
Self-reactive substances and mixtures
Organic peroxides
Explosives
Gases

Storage class (TRGS 510) : 6.1C

Storage period : 6 Months

Recommended storage temperature : 15 - 23 °C

12 Months

0 - 15 °C

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version 2.2 Revision Date: 21.11.2024 SDS Number: 11266696-00004 Date of last issue: 19.08.2024
Date of first issue: 01.09.2023

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Methyl methacrylate	80-62-6	TWA	50 ppm	2009/161/EU
	Further information: Indicative			
		STEL	100 ppm	2009/161/EU
	Further information: Indicative			
		MAK	50 ppm 210 mg/m ³	DE DFG MAK
	Peak-limit: excursion factor (category): 2; I			
	Further information: Danger of sensitization of the skin, Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed			
		AGW	50 ppm 210 mg/m ³	DE TRGS 900
	Peak-limit: excursion factor (category): 2;(I)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
Styrene	100-42-5	AGW	20 ppm 86 mg/m ³	DE TRGS 900
	Peak-limit: excursion factor (category): 2;(II)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
		MAK	20 ppm 86 mg/m ³	DE DFG MAK
	Peak-limit: excursion factor (category): 2; II			
	Further information: Substances that cause cancer in humans or animals or that are considered to be carcinogenic for humans and for which a MAK value can be derived, Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed			

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Styrene	100-42-5	mandelic acid + phenylglyoxylic acid: 600 mg/g creatinine (Urine)	In case of long-term exposure: after more than one shift, Immediately after exposure or after working hours	TRGS 903
		mandelic acid plus phenylglyoxylic acid: 600 mg/g creatinine (Urine)	end of shift, for long-term exposures after several previous shifts, Immediately after exposition or after working hours	DE DFG BAT

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health effects	Value
2-Hydroxyethyl meth-	Workers	Inhalation	Long-term systemic	4,9 mg/m ³

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version 2.2 Revision Date: 21.11.2024 SDS Number: 11266696-00004 Date of last issue: 19.08.2024
Date of first issue: 01.09.2023

acrylate			effects	
	Workers	Skin contact	Long-term systemic effects	1,3 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2,9 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0,83 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,83 mg/kg bw/day
Methyl methacrylate	Workers	Inhalation	Long-term systemic effects	348,4 mg/m3
	Workers	Inhalation	Long-term local effects	208 mg/m3
	Workers	Inhalation	Acute local effects	416 mg/m3
	Workers	Skin contact	Long-term systemic effects	13,67 mg/kg bw/day
	Workers	Skin contact	Long-term local effects	1,5 mg/cm2
	Workers	Skin contact	Acute local effects	1,5 mg/cm2
	Consumers	Inhalation	Long-term systemic effects	74,3 mg/m3
	Consumers	Inhalation	Long-term local effects	104 mg/m3
	Consumers	Inhalation	Acute local effects	208 mg/m3
	Consumers	Skin contact	Long-term systemic effects	8,2 mg/kg bw/day
	Consumers	Skin contact	Long-term local effects	1,5 mg/cm2
	Consumers	Skin contact	Acute local effects	1,5 mg/cm2
	Consumers	Ingestion	Long-term systemic effects	8,2 mg/kg bw/day
Styrene	Workers	Inhalation	Long-term systemic effects	85 mg/m3
	Workers	Inhalation	Acute local effects	289 mg/m3
	Workers	Inhalation	Acute local effects	306 mg/m3
	Workers	Skin contact	Long-term systemic effects	406 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	10,2 mg/m3
	Consumers	Inhalation	Acute systemic effects	174,25 mg/m3
	Consumers	Inhalation	Acute local effects	182,75 mg/m3
	Consumers	Skin contact	Long-term systemic effects	343 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	2,1 mg/kg bw/day
2-Ethylhexyl methacrylate	Workers	Inhalation	Long-term systemic effects	2,5 mg/m3
	Workers	Skin contact	Long-term systemic effects	5 mg/kg bw/day
Tetrahydrofurfuryl methacrylate	Workers	Inhalation	Long-term systemic effects	3,53 mg/m3

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version 2.2 Revision Date: 21.11.2024 SDS Number: 11266696-00004 Date of last issue: 19.08.2024
Date of first issue: 01.09.2023

	Workers	Skin contact	Long-term systemic effects	1 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,87 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0,5 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,5 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value	
2-Hydroxyethyl methacrylate	Fresh water	0,482 mg/l	
	Marine water	0,482 mg/l	
	Intermittent use/release	1 mg/l	
	Sewage treatment plant	10 mg/l	
	Fresh water sediment	3,79 mg/kg	
	Marine sediment	3,79 mg/kg	
	Soil	0,476 mg/kg	
	Methyl methacrylate	Fresh water	0,94 mg/l
	Freshwater - intermittent	0,69 mg/l	
	Marine water	0,094 mg/l	
	Sewage treatment plant	10 mg/l	
	Fresh water sediment	10,2 mg/kg dry weight (d.w.)	
	Marine sediment	1,02 mg/kg dry weight (d.w.)	
	Soil	1,48 mg/kg dry weight (d.w.)	
	Styrene	Soil	0,2 mg/kg
		Marine sediment	0,307 mg/kg
		Fresh water sediment	0,614 mg/kg
		Sewage treatment plant	5 mg/l
Intermittent use/release		0,04 mg/l	
Marine water		0,014 mg/l	
	Fresh water	0,028 mg/l	
	2-Ethylhexyl methacrylate	Fresh water	0,003 mg/l
		Marine water	0,000348 mg/l
		Freshwater - intermittent	0,022 mg/l
		Sewage treatment plant	10 mg/l
Fresh water sediment		2,24 mg/kg dry weight (d.w.)	
Marine sediment		0,224 mg/kg dry weight (d.w.)	
	Soil	0,446 mg/kg dry weight (d.w.)	
	Tetrahydrofurfuryl methacrylate	Fresh water	0,347 mg/l
		Freshwater - intermittent	0,347 mg/l
		Marine water	0,035 mg/l
		Marine water - intermittent	0,035 mg/l
Sewage treatment plant		15,8 mg/l	
Fresh water sediment		2,12 mg/kg dry weight (d.w.)	

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version 2.2 Revision Date: 21.11.2024 SDS Number: 11266696-00004 Date of last issue: 19.08.2024
Date of first issue: 01.09.2023

	Marine sediment	0,212 mg/kg dry weight (d.w.)
	Soil	0,221 mg/kg dry weight (d.w.)
Succinic anhydride	Fresh water	0,1 mg/l
	Marine water	0,01 mg/l
	Sewage treatment plant	3 mg/l

8.2 Exposure controls

Engineering measures

Minimize workplace exposure concentrations.
If sufficient ventilation is unavailable, use with local exhaust ventilation.

Personal protective equipment

Eye/face protection : Wear the following personal protective equipment:
Chemical resistant goggles must be worn.
If splashes are likely to occur, wear:
Face-shield
Equipment should conform to DIN EN 166

Hand protection

Material : Nitrile rubber
Break through time : > 480 min
Glove thickness : > 0,4 mm
Directive : Equipment should conform to DIN EN 374

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Equipment should conform to DIN EN 14387

Filter type : Combined particulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : paste

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version	Revision Date:	SDS Number:	Date of last issue: 19.08.2024
2.2	21.11.2024	11266696-00004	Date of first issue: 01.09.2023

Colour : brown, beige

Odour : acrylic-like

Odour Threshold : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : ≥ 110 °C

Flammability (solid, gas) : Not applicable

Flammability (liquids) : Ignitable (see flash point)

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Flash point : ≥ 94 °C
Active ingredient

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : substance/mixture is non-soluble (in water)

Viscosity
Viscosity, kinematic : 17,708 mm²/s

Solubility(ies)
Water solubility : slightly soluble

Partition coefficient: n-octanol/water : Not applicable

SAFETY DATA SHEET

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Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version	Revision Date:	SDS Number:	Date of last issue: 19.08.2024
2.2	21.11.2024	11266696-00004	Date of first issue: 01.09.2023

Vapour pressure : No data available

Density : 0,96 - 1,00 g/cm³

Relative vapour density : No data available

Particle characteristics
Particle size : Not applicable

9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Evaporation rate : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.
Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

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

SAFETY DATA SHEET

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Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version	Revision Date:	SDS Number:	Date of last issue: 19.08.2024
2.2	21.11.2024	11266696-00004	Date of first issue: 01.09.2023

Information on likely routes of exposure : Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Components:

Tetrahydrofurfuryl methacrylate:

Acute oral toxicity : LD50 (Rat): 4.000 mg/kg
Method: OECD Test Guideline 401

2-Ethylhexyl methacrylate:

Acute oral toxicity : LD50 (Rat): 16.465 mg/kg
Acute dermal toxicity : LD50 (Guinea pig): > 17.620 mg/kg

[2-[(2-Methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate:

Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

Succinic anhydride:

Acute oral toxicity : LD50 (Rat, female): 1.510,5 mg/kg
Method: OECD Test Guideline 401
Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.
Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 402

2-Hydroxyethyl methacrylate:

Acute oral toxicity : LD50 (Rat): 5.564 mg/kg
Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Methyl methacrylate:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Acute dermal toxicity : LD50 (Rabbit, male): > 5.000 mg/kg

Styrene:

Acute oral toxicity : LD50 (Hamster): > 5.000 mg/kg
Acute inhalation toxicity : LC50 (Rat): 11,8 mg/l
Exposure time: 4 h

SAFETY DATA SHEET

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Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version	Revision Date:	SDS Number:	Date of last issue: 19.08.2024
2.2	21.11.2024	11266696-00004	Date of first issue: 01.09.2023

Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Causes skin irritation.

Components:

Tetrahydrofurfuryl methacrylate:

Species : Rabbit
Result : No skin irritation

2-Ethylhexyl methacrylate:

Result : Skin irritation
Remarks : Based on national or regional regulation.

[2-[(2-Methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate:

Species : reconstructed human epidermis (RhE)
Method : OECD Test Guideline 431

Species : reconstructed human epidermis (RhE)
Method : OECD Test Guideline 439

Result : No skin irritation

Succinic anhydride:

Species : reconstructed human epidermis (RhE)
Method : OECD Test Guideline 431

Result : Corrosive after 4 hours or less of exposure

2-Hydroxyethyl methacrylate:

Result : Skin irritation
Remarks : Based on national or regional regulation.

Methyl methacrylate:

Species : Rabbit
Result : Skin irritation

Styrene:

Species : Rabbit
Result : Skin irritation

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version 2.2 Revision Date: 21.11.2024 SDS Number: 11266696-00004 Date of last issue: 19.08.2024
Date of first issue: 01.09.2023

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

Tetrahydrofurfuryl methacrylate:

Species : Rabbit
Result : No eye irritation

2-Ethylhexyl methacrylate:

Result : Eye irritation
Remarks : Based on national or regional regulation.

[2-[(2-Methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate:

Species : Bovine cornea
Method : OECD Test Guideline 437
Result : Irreversible effects on the eye

Succinic anhydride:

Species : Rabbit
Result : Irreversible effects on the eye

2-Hydroxyethyl methacrylate:

Species : Rabbit
Result : Irritation to eyes, reversing within 21 days

Methyl methacrylate:

Species : Rabbit
Result : No eye irritation

Styrene:

Species : Rabbit
Result : Irritation to eyes, reversing within 21 days

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

Tetrahydrofurfuryl methacrylate:

Exposure routes : Skin contact
Species : Humans
Result : positive

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version 2.2 Revision Date: 21.11.2024 SDS Number: 11266696-00004 Date of last issue: 19.08.2024
Date of first issue: 01.09.2023

Assessment : Probability or evidence of skin sensitisation in humans

2-Ethylhexyl methacrylate:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Result : positive

Assessment : Probability or evidence of low to moderate skin sensitisation rate in humans

[2-[(2-Methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate:

Test Type : Magnusson-Kligman-Test
Exposure routes : Skin contact
Species : Guinea pig
Result : positive
Remarks : Based on data from similar materials

Assessment : Probability or evidence of skin sensitisation in humans

Succinic anhydride:

Test Type : Local lymph node assay (LLNA)
Exposure routes : Skin contact
Species : Mouse
Method : OECD Test Guideline 429
Result : positive

Assessment : Probability or evidence of low to moderate skin sensitisation rate in humans

Exposure routes : Inhalation
Species : Humans
Result : positive

Assessment : Probability of respiratory sensitisation in humans based on animal testing

2-Hydroxyethyl methacrylate:

Assessment : Probability or evidence of skin sensitisation in humans
Remarks : Based on national or regional regulation.

Methyl methacrylate:

Test Type : Local lymph node assay (LLNA)
Exposure routes : Skin contact
Species : Mouse
Result : positive

Assessment : Probability or evidence of skin sensitisation in humans

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version	Revision Date:	SDS Number:	Date of last issue: 19.08.2024
2.2	21.11.2024	11266696-00004	Date of first issue: 01.09.2023

Germ cell mutagenicity

Not classified based on available information.

Components:

Tetrahydrofurfuryl methacrylate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Test Type: in vitro micronucleus test
Method: Regulation (EC) No. 440/2008, Annex, B.49
Result: negative

2-Ethylhexyl methacrylate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative

[2-[(2-Methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Succinic anhydride:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative
Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro
Result: negative

2-Hydroxyethyl methacrylate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version	Revision Date:	SDS Number:	Date of last issue: 19.08.2024
2.2	21.11.2024	11266696-00004	Date of first issue: 01.09.2023

Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 474
Result: negative

Methyl methacrylate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Test Type: in vitro micronucleus test
Method: OECD Test Guideline 487
Result: negative

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)
Species: Mouse
Application Route: Inhalation
Result: negative

Styrene:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: inhalation (vapour)
Method: OECD Test Guideline 474
Result: negative

Carcinogenicity

Not classified based on available information.

Components:

2-Ethylhexyl methacrylate:

Species : Rat
Application Route : Inhalation
Exposure time : 2 Years
Result : negative
Remarks : Based on data from similar materials

Species : Rat

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version 2.2 Revision Date: 21.11.2024 SDS Number: 11266696-00004 Date of last issue: 19.08.2024
Date of first issue: 01.09.2023

Application Route : Ingestion
Exposure time : 2 Years
Result : negative
Remarks : Based on data from similar materials

Succinic anhydride:

Species : Rat
Application Route : Ingestion
Exposure time : 2 Years
Result : negative

Species : Mouse
Application Route : Ingestion
Exposure time : 18 Months
Result : negative

2-Hydroxyethyl methacrylate:

Species : Rat
Application Route : Inhalation
Exposure time : 102 weeks
Method : OECD Test Guideline 451
Result : negative
Remarks : Based on data from similar materials

Methyl methacrylate:

Species : Mouse
Application Route : Inhalation
Exposure time : 102 weeks
Result : negative

Styrene:

Species : Rat
Application Route : inhalation (vapour)
Exposure time : 104 weeks
Result : positive
Remarks : The mechanism or mode of action may not be relevant in humans.

Reproductive toxicity

May damage the unborn child. Suspected of damaging fertility.

Components:

Tetrahydrofurfuryl methacrylate:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 422
Result: positive

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version 2.2 Revision Date: 21.11.2024 SDS Number: 11266696-00004 Date of last issue: 19.08.2024
Date of first issue: 01.09.2023

Effects on foetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 422
Result: positive

Reproductive toxicity - Assessment : Clear evidence of adverse effects on development, based on animal experiments., Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

2-Ethylhexyl methacrylate:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 422
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rabbit
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative

Succinic anhydride:

Effects on foetal development : Test Type: Reproduction/Developmental toxicity screening test
Species: Mouse
Application Route: Intraperitoneal injection
Result: negative

2-Hydroxyethyl methacrylate:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 422
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rabbit
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative
Remarks: Based on data from similar materials

Methyl methacrylate:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version 2.2 Revision Date: 21.11.2024 SDS Number: 11266696-00004 Date of last issue: 19.08.2024
Date of first issue: 01.09.2023

Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 416
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rabbit
Application Route: inhalation (vapour)
Method: OECD Test Guideline 414
Result: negative

Styrene:

Effects on fertility : Test Type: Three-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: inhalation (vapour)
Result: positive

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

STOT - single exposure

May cause respiratory irritation.

Components:

Tetrahydrofurfuryl methacrylate:

Assessment : May cause respiratory irritation.
Remarks : Based on data from similar materials

2-Ethylhexyl methacrylate:

Assessment : May cause respiratory irritation.
Remarks : Based on national or regional regulation.

Methyl methacrylate:

Assessment : May cause respiratory irritation.

Styrene:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version 2.2 Revision Date: 21.11.2024 SDS Number: 11266696-00004 Date of last issue: 19.08.2024
Date of first issue: 01.09.2023

Components:

Styrene:

Target Organs : Auditory system
Assessment : Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

Tetrahydrofurfuryl methacrylate:

Species : Rat
NOAEL : 300 mg/kg
Application Route : Ingestion
Exposure time : 53 Days
Method : OECD Test Guideline 422

2-Ethylhexyl methacrylate:

Species : Rat
NOAEL : 120 mg/kg
LOAEL : 360 mg/kg
Application Route : Ingestion
Exposure time : 3 Months
Method : OECD Test Guideline 408

Succinic anhydride:

Species : Rat
NOAEL : 100 mg/kg
Application Route : Ingestion
Exposure time : 90 Days

2-Hydroxyethyl methacrylate:

Species : Rat
NOAEL : 100 mg/kg
Application Route : Ingestion
Exposure time : 21 Days
Method : OECD Test Guideline 422

Methyl methacrylate:

Species : Rat, male
NOAEL : $\geq 124,1$ mg/kg
Application Route : Ingestion
Exposure time : 104 Weeks

Styrene:

Species : Rat
NOAEL : 1,28 mg/l

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version	Revision Date:	SDS Number:	Date of last issue: 19.08.2024
2.2	21.11.2024	11266696-00004	Date of first issue: 01.09.2023

Application Route : inhalation (vapour)
Exposure time : 4 Weeks

Species : Rat
NOAEL : 1.000 - 2.000 mg/kg
Application Route : Ingestion
Exposure time : 78 - 100 Weeks

Aspiration toxicity

Not classified based on available information.

Components:

Styrene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Tetrahydrofurfuryl methacrylate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 34,7 mg/l
Exposure time: 96 h

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC10 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 38,8 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version 2.2 Revision Date: 21.11.2024 SDS Number: 11266696-00004 Date of last issue: 19.08.2024
Date of first issue: 01.09.2023

2-Ethylhexyl methacrylate:

- Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): 2,78 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 4,56 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): 7,68 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- NOEC (Pseudokirchneriella subcapitata (green algae)): 0,28 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- Toxicity to microorganisms : NOEC : 100 mg/l
Exposure time: 28 h
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR: 0,105 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test substance: Water Accommodated Fraction
Method: OECD Test Guideline 211

[2-[(2-Methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate:

- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 515,4 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 312 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- EC10 (Pseudokirchneriella subcapitata (green algae)): >= 161 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Succinic anhydride:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version 2.2 Revision Date: 21.11.2024 SDS Number: 11266696-00004 Date of last issue: 19.08.2024
Date of first issue: 01.09.2023

Test substance: Neutralised product
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
Exposure time: 72 h
Test substance: Neutralised product
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

NOEC (Pseudokirchneriella subcapitata (green algae)): 100 mg/l
Exposure time: 72 h
Test substance: Neutralised product
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials

2-Hydroxyethyl methacrylate:

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 380 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum (green algae)): 836 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Selenastrum capricornutum (green algae)): 400 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC0 : > 3.000 mg/l
Exposure time: 16 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 24,1 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

Methyl methacrylate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 159,1 mg/l
Exposure time: 96 h

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version 2.2 Revision Date: 21.11.2024 SDS Number: 11266696-00004 Date of last issue: 19.08.2024
Date of first issue: 01.09.2023

- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 69 mg/l
Exposure time: 48 h
- Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 110 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- NOEC (Raphidocelis subcapitata (freshwater green alga)): >= 110 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- Toxicity to microorganisms : EC50 (activated sludge): 3.162 mg/l
Exposure time: 3 h
Method: ISO 8192
- Toxicity to fish (Chronic toxicity) : EC10: 16,9 mg/l
Exposure time: 35 d
Species: Danio rerio (zebra fish)
Method: OECD Test Guideline 210
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 37 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

Styrene:

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 10 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4,7 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 6,3 mg/l
Exposure time: 96 h
- EC10 (Pseudokirchneriella subcapitata (green algae)): 0,28 mg/l
Exposure time: 96 h
- Toxicity to microorganisms : NOEC (Pseudomonas putida): 72 mg/l
Exposure time: 16 h
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,01 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version 2.2 Revision Date: 21.11.2024 SDS Number: 11266696-00004 Date of last issue: 19.08.2024
Date of first issue: 01.09.2023

12.2 Persistence and degradability

Components:

Tetrahydrofurfuryl methacrylate:

Biodegradability : Result: Inherently biodegradable.
Biodegradation: 75 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

2-Ethylhexyl methacrylate:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 88 %
Exposure time: 28 d
Method: OECD Test Guideline 301C

[2-[(2-Methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate:

Biodegradability : Result: rapidly degradable
Biodegradation: 80 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

Succinic anhydride:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301E
Remarks: Based on data from similar materials

2-Hydroxyethyl methacrylate:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 92 %
Exposure time: 14 d
Method: OECD Test Guideline 301C

Methyl methacrylate:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 94 %
Exposure time: 14 d
Method: OECD Test Guideline 301C

Styrene:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 28 d

12.3 Bioaccumulative potential

Components:

Tetrahydrofurfuryl methacrylate:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version	Revision Date:	SDS Number:	Date of last issue: 19.08.2024
2.2	21.11.2024	11266696-00004	Date of first issue: 01.09.2023

Partition coefficient: n-octanol/water : log Pow: 1,76
Method: OECD Test Guideline 117

2-Ethylhexyl methacrylate:

Bioaccumulation : Bioconcentration factor (BCF): 37
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 4,95

[2-[(2-Methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate:

Partition coefficient: n-octanol/water : log Pow: 0,782
Method: Regulation (EC) No. 440/2008, Annex, A.8

Succinic anhydride:

Partition coefficient: n-octanol/water : log Pow: 2,44
Method: OECD Test Guideline 117

2-Hydroxyethyl methacrylate:

Partition coefficient: n-octanol/water : log Pow: 0,42

Methyl methacrylate:

Partition coefficient: n-octanol/water : log Pow: 1,38

Styrene:

Partition coefficient: n-octanol/water : log Pow: 2,96

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version	Revision Date:	SDS Number:	Date of last issue: 19.08.2024
2.2	21.11.2024	11266696-00004	Date of first issue: 01.09.2023

levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- | | | |
|------------------------|---|--|
| Product | : | Dispose of in accordance with local regulations.
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Do not dispose of waste into sewer. |
| Contaminated packaging | : | Empty containers should be taken to an approved waste handling site for recycling or disposal.
If not otherwise specified: Dispose of as unused product. |
| Waste Code | : | The following Waste Codes are only suggestions:

used product
08 04 09*, waste adhesives and sealants containing organic solvents or other hazardous substances

unused product
08 04 09*, waste adhesives and sealants containing organic solvents or other hazardous substances

uncleaned packagings
15 01 10*, packaging containing residues of or contaminated by hazardous substances |

SECTION 14: Transport information

14.1 UN number or ID number

- | | | |
|------|---|-----------------------------------|
| ADN | : | ID 9006 |
| ADR | : | Not regulated as a dangerous good |
| RID | : | Not regulated as a dangerous good |
| IMDG | : | Not regulated as a dangerous good |
| IATA | : | UN 3334 |

14.2 UN proper shipping name

- | | | |
|-----|---|---|
| ADN | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| ADR | : | Not regulated as a dangerous good |

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version 2.2 Revision Date: 21.11.2024 SDS Number: 11266696-00004 Date of last issue: 19.08.2024
Date of first issue: 01.09.2023

RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Aviation regulated liquid, n.o.s.
(Tetrahydrofurfuryl methacrylate)

14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 9	
ADR	: Not regulated as a dangerous good	
RID	: Not regulated as a dangerous good	
IMDG	: Not regulated as a dangerous good	
IATA	: 9	

14.4 Packing group

ADN
Packing group : Not assigned by regulation
Classification Code : M12
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good

IATA (Cargo)
Packing instruction (cargo aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous

IATA (Passenger)
Packing instruction (passenger aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous

14.5 Environmental hazards

ADN
Environmentally hazardous : no
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version	Revision Date:	SDS Number:	Date of last issue: 19.08.2024
2.2	21.11.2024	11266696-00004	Date of first issue: 01.09.2023

Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) :

Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the conditions in corresponding Regulation to determine whether an entry is applicable to the placing on the market or not.

Conditions of restriction for the following entries should be considered: Number on list 3

Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

Water hazard class (Germa- : WGK 2 obviously hazardous to water

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version	Revision Date:	SDS Number:	Date of last issue: 19.08.2024
2.2	21.11.2024	11266696-00004	Date of first issue: 01.09.2023

ny) Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) :

- 5.2.1: Total dust:
Not applicable
- 5.2.2: Inorganic substances in powdered form:
Not applicable
- 5.2.4: Inorganic substances in gaseous form:
Not applicable
- 5.2.5: Organic Substances:
Not applicable
- 5.2.7.1.1: Carcinogenic substance:
Not applicable
- 5.2.7.1.1: Quartz fine dust PM4:
Not applicable
- 5.2.7.1.1: Formaldehyde:
Not applicable
- 5.2.7.1.1: fibres:
Not applicable
- 5.2.7.1.2: Germ cell mutagens:
Not applicable
- 5.2.7.1.3: Substances toxic to reproduction:
others: 50 % Tetrahydrofurfuryl methacrylate
- 5.2.7.2: Poorly degradable, easily enrichable and highly toxic organic substances:
Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 1 %

Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version	Revision Date:	SDS Number:	Date of last issue: 19.08.2024
2.2	21.11.2024	11266696-00004	Date of first issue: 01.09.2023

Full text of H-Statements

H225	: Highly flammable liquid and vapour.
H226	: Flammable liquid and vapour.
H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
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.
H332	: Harmful if inhaled.
H334	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	: May cause respiratory irritation.
H360Df	: May damage the unborn child. Suspected of damaging fertility.
H361d	: Suspected of damaging the unborn child.
H372	: Causes damage to organs through prolonged or repeated exposure.
H412	: Harmful to aquatic life with long lasting effects.
EUH071	: Corrosive to the respiratory tract.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Repr.	: Reproductive toxicity
Resp. Sens.	: Respiratory sensitisation
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
2009/161/EU	: Europe. COMMISSION DIRECTIVE 2009/161/EU establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC
DE DFG BAT	: Germany. MAK BAT Annex XIII
DE DFG MAK	: Germany. MAK BAT Annex IIa
DE TRGS 900	: Germany. TRGS 900 - Occupational exposure limit values.
TRGS 903	: TRGS 903 - Biological limit values
2009/161/EU / TWA	: Limit Value - eight hours
2009/161/EU / STEL	: Short term exposure limit
DE DFG MAK / MAK	: MAK value
DE TRGS 900 / AGW	: Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regula-

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

Version	Revision Date:	SDS Number:	Date of last issue: 19.08.2024
2.2	21.11.2024	11266696-00004	Date of first issue: 01.09.2023

tion (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Classification of the mixture:

Skin Irrit. 2	H315
Eye Dam. 1	H318
Skin Sens. 1	H317
Repr. 1B	H360Df
STOT SE 3	H335
Aquatic Chronic 3	H412

Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KUNSTSTOFFKLEBER SPEZIAL - 50 ML (A)

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