

SAFETY DATA SHEET



Easy-Mix PE-PP 45 Structural Acrylic Adhesive Resin

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

1.1 Product identifier

Product name : Easy-Mix PE-PP 45 Structural Acrylic Adhesive Resin
UFI : NK70-Q0GY-R00R-1G8D
Product code : 106601
Color : Off-white.
Product description : Adhesives-Construction Products
Product type : Liquid.
Other means of identification : Not available.

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

Identified uses

Adhesives-Construction Products

Uses advised against

Not applicable.

1.3 Details of the supplier of the safety data sheet

WEICON GmbH & Co. KG
Königsberger Str. 255,
48157 Münster, Germany
phone:+49 251 93220,
email: info@weicon.de,
URL: www.weicon.de

e-mail address of person responsible for this SDS : msds@weicon.de

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : EMERGENCY CONTACT – UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English)
TRANSPORT EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Skin Sens. 1, H317

Repr. 1B, H360D

Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Ingredients of unknown toxicity : 8 percent of the mixture consists of component(s) of unknown acute oral toxicity
8 percent of the mixture consists of component(s) of unknown acute dermal toxicity
8 percent of the mixture consists of component(s) of unknown acute inhalation toxicity

Ingredients of unknown ecotoxicity : Contains 8% of components with unknown hazards to the aquatic environment

SECTION 2: Hazards identification

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: H317 - May cause an allergic skin reaction.
H360D - May damage the unborn child.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

General

: P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.

Prevention

: P201 - Obtain special instructions before use.
P261 - Avoid breathing vapor.
P273 - Avoid release to the environment.
P280 - Wear protective gloves: > 8 hours (breakthrough time): Protective gloves made of nitrile rubber (material thickness of 0,4 mm); EN 374-5 Cat. III. Wear protective clothing. Wear eye or face protection. Wear hearing protection.

Response

: P308 + P313 - IF exposed or concerned: Get medical advice or attention.
P362 + P364 - Take off contaminated clothing and wash it before reuse.
P302 + P352 - IF ON SKIN: Wash with plenty of water.
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.

Storage

: P405 - Store locked up.

Disposal

: P501 - Dispose of waste according to applicable legislation.

Hazardous ingredients

: tetrahydrofurfuryl methacrylate; 2-ethylhexyl methacrylate; 1-[2-[(2-Methyl-1-oxo-2-propen-1-yl)oxy]ethyl] butanedioate; succinic anhydride; 2-hydroxyethyl methacrylate and methyl methacrylate

Supplemental label elements

: Corrosive to the respiratory tract.

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

: Restricted to professional users.

Special packaging requirements

Containers to be fitted with child-resistant fastenings

: Yes, applicable.

Tactile warning of danger

: Yes, applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
tetrahydrofurfuryl methacrylate	EC: 219-529-5 CAS: 2455-24-5	≥25 - ≤50	Skin Sens. 1, H317 Repr. 1B, H360D Aquatic Chronic 3, H412	-	[1] [2]
2-ethylhexyl methacrylate	REACH #: 01-2119490166-35 EC: 211-708-6 CAS: 688-84-6	≥10 - ≤25	Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1]
[2-[(2-methyl-1-oxoallyl)oxy] ethyl] hydrogen succinate	REACH #: 01-2120137902-58 EC: 244-096-4 CAS: 20882-04-6	≥5 - <10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335	-	[1]
succinic anhydride	EC: 203-570-0 CAS: 108-30-5 Index: 607-103-00-5	≥0.3 - <1	Acute Tox. 4, H302 Skin Corr. 1, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 EUH071	ATE [Oral] = 1510 mg/kg	[1]
2-hydroxyethyl methacrylate	REACH #: 01-2119490169-29 EC: 212-782-2 CAS: 868-77-9 Index: 607-124-00-X	≥0.1 - ≤0.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1] [2]
methyl methacrylate	REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6	≥0.1 - ≤0.3	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	-	[1] [2]
styrene	EC: 202-851-5 CAS: 100-42-5 Index: 601-026-00-0	≥0.1 - ≤0.3	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d STOT RE 1, H372 (hearing organs) See Section 16 for the full text of the H statements declared above.	ATE [Inhalation (gases)] = 2770 ppm	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a physical, health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- Inhalation** : Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

5.3 Advice for firefighters

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

SECTION 6: Accidental release measures

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Do not store below the following temperature: 0°C (32°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
tetrahydrofurfuryl methacrylate 2-hydroxyethyl methacrylate methyl methacrylate	DFG MAC-values list (Germany, 7/2024) Skin sensitizer. DFG MAC-values list (Germany, 7/2024) Skin sensitizer. DFG MAC-values list (Germany, 7/2024) Develop C. Skin sensitizer. TWA 8 hours: 50 ml/m³. PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 210 mg/m³. PEAK 15 minutes: 420 mg/m³ 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 100 ml/m³ 4 times per shift [Interval: 1 hour]. TRGS 900 OEL (Germany, 3/2025) TWA 8 hours: 210 mg/m³. PEAK 15 minutes: 420 mg/m³. TWA 8 hours: 50 ppm.

SECTION 8: Exposure controls/personal protection

styrene	PEAK 15 minutes: 100 ppm. EU OEL (Europe, 1/2022) TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. DFG MAC-values list (Germany, 7/2024) Carc 5, Develop C. TWA 8 hours: 20 ppm. PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 86 mg/m³. PEAK 15 minutes: 172 mg/m³ 4 times per shift [Interval: 1 hour]. TRGS 900 OEL (Germany, 3/2025) TWA 8 hours: 86 mg/m³. PEAK 15 minutes: 172 mg/m³. TWA 8 hours: 20 ppm. PEAK 15 minutes: 40 ppm.
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Biological exposure indices

Product/ingredient name	Exposure indices
styrene	DFG BEI-values list (Germany, 7/2024) BEI: 600 mg/g creatinine, mandelic acid plus phenyl glyoxylic acid [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 10/2024) BEI: 600 mg/g creatinine, mandelic acid plus phenylglyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following:
European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Result
tetrahydrofurfuryl methacrylate	DNEL - General population - Long term - Oral 0.5 mg/kg bw/day <u>Effects</u>: Systemic DNEL - General population - Long term - Dermal 0.5 mg/kg bw/day <u>Effects</u>: Systemic DNEL - General population - Long term - Inhalation 0.87 mg/m³ <u>Effects</u>: Systemic DNEL - Workers - Long term - Dermal 1 mg/kg bw/day <u>Effects</u>: Systemic DNEL - Workers - Long term - Inhalation 3.53 mg/m³ <u>Effects</u>: Systemic
2-ethylhexyl methacrylate	DNEL - Workers - Long term - Inhalation 2.5 mg/m³ <u>Effects</u>: Systemic

SECTION 8: Exposure controls/personal protection

2-hydroxyethyl methacrylate

DNEL - Workers - Long term - Dermal

5 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Oral

0.83 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Dermal

0.83 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

1.39 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

1.45 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

4.9 mg/m³

Effects: Systemic

methyl methacrylate

DNEL - General population - Short term - Dermal

1.5 mg/cm²

Effects: Local

DNEL - General population - Long term - Dermal

1.5 mg/cm²

Effects: Local

DNEL - Workers - Short term - Dermal

1.5 mg/cm²

Effects: Local

DNEL - Workers - Long term - Dermal

1.5 mg/cm²

Effects: Local

DNEL - General population - Long term - Oral

8.2 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Dermal

8.2 mg/kg bw/day

Effects: Systemic

DNEL - Workers - Long term - Dermal

13.67 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

74.3 mg/m³

Effects: Systemic

DNEL - General population - Long term - Inhalation

104 mg/m³

Effects: Local

DNEL - General population - Short term - Inhalation

208 mg/m³

Effects: Local

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SECTION 8: Exposure controls/personal protection

styrene	DNEL - Workers - Long term - Inhalation 208 mg/m³ <u>Effects:</u> Local
	DNEL - Workers - Long term - Inhalation 348.4 mg/m³ <u>Effects:</u> Systemic
	DNEL - Workers - Short term - Inhalation 416 mg/m³ <u>Effects:</u> Local
	DNEL - General population - Long term - Oral 7.7 µg/kg bw/day <u>Effects:</u> Systemic
	DNEL - General population - Long term - Inhalation 1 mg/m³ <u>Effects:</u> Local
	DNEL - General population - Long term - Inhalation 1 mg/m³ <u>Effects:</u> Systemic
	DNEL - General population - Short term - Inhalation 10 mg/m³ <u>Effects:</u> Local
	DNEL - General population - Short term - Inhalation 10 mg/m³ <u>Effects:</u> Systemic
	DNEL - Workers - Long term - Inhalation 85 mg/m³ <u>Effects:</u> Systemic
	DNEL - Workers - Short term - Inhalation 100 mg/m³ <u>Effects:</u> Local
	DNEL - Workers - Long term - Inhalation 100 mg/m³ <u>Effects:</u> Local
	DNEL - Workers - Short term - Inhalation 100 mg/m³ <u>Effects:</u> Systemic
	DNEL - General population - Long term - Dermal 343 mg/kg bw/day <u>Effects:</u> Systemic
	DNEL - Workers - Long term - Dermal 406 mg/kg bw/day <u>Effects:</u> Systemic

PNECs
Not available.

SECTION 8: Exposure controls/personal protection

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. > 8 hours (breakthrough time): Protective gloves made of nitrile rubber (material thickness of 0,4 mm); EN 374-5 Cat. III Recommended : 1 - 4 hours (breakthrough time): Protective gloves made of nitrile rubber (material thickness of 0,4 mm); EN 374-5 Cat. III ; 4 - 8 hours (breakthrough time): Protective gloves made of Viton®/ butyl rubber (material thickness of 0,7 mm); EN388 Cat.II / EN374 Cat.III / EN374-2

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended : organic vapor (Type AX) and particulate filter

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.
Color : Off-white.
Odor : Strong. Aldehyde-like.
Odor threshold : Not available.
Melting point/freezing point : Not applicable.
Boiling point or initial boiling point and boiling range : >110°C (>230°F)

SECTION 9: Physical and chemical properties

Flammability : Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.
Flammable in the presence of the following materials or conditions: heat.

Lower and upper explosion limit : Not available.

Flash point : Closed cup: >93.3°C (>199.9°F)

Auto-ignition temperature :

Ingredient name	°C	°F	Method
2-ethylhexyl methacrylate	250	482	EU A.15
methyl methacrylate	400	752	DIN 51794
styrene	490	914	

Decomposition temperature : Not available.

pH : Not applicable.

Viscosity : Dynamic (room temperature): 17000 mPa·s
Kinematic (room temperature): 17708 mm²/s
Kinematic (40°C): Not available.

Solubility :
Not available.

Solubility in water : Not available.

Partition coefficient n-octanol/ water (log Pow) : Not applicable.

Vapor pressure :

Ingredient name	Vapor Pressure at 20 °C			Vapor pressure at 50 °C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
methyl methacrylate	27.75236	3.7				
styrene	6.4	0.85				
2-hydroxyethyl methacrylate	0.06001	0.008	OECD 104			
2-ethylhexyl methacrylate	0.04875	0.0065	OECD 104			
2-[(2-methyl-1-oxoallyl)oxy]ethyl acetoacetate	0.0018	0.00024				
succinic anhydride	0	0				

Relative density : Not applicable.

Density : 0.96 to 1 g/cm³ [20°C (68°F)]

Relative vapor density : Not available.

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties : Not available.

Oxidizing properties : Not available.

9.2.2 Other safety characteristics

Miscible with water : No.

SECTION 10: Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : The product is stable.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : No specific data.
- 10.5 Incompatible materials** : No specific data.
- 10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Reactive or incompatible with the following materials: acids.
Sensitive to light.

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name

succinic anhydride

Result

Rat - Oral - LD50

1510 mg/kg

2-hydroxyethyl methacrylate

Rat - Oral - LD50

5050 mg/kg

Toxic effects: Behavioral - Coma

methyl methacrylate

Rat - Oral - LD50

7872 mg/kg

Toxic effects: Behavioral - Muscle weakness Behavioral - Coma Lung, Thorax, or Respiration - Respiratory depression

Rabbit - Dermal - LD50

>5 g/kg

Toxic effects: Skin After systemic exposure - Dermatitis, other

styrene

Rat - Oral - LD50

2650 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Liver - Other changes

Rat - Inhalation - LC50 Vapor

11800 mg/m³ [4 hours]

Rat - Inhalation - LC50 Gas.

2770 ppm [4 hours]

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

SECTION 11: Toxicological information

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
succinic anhydride	1510	N/A	N/A	N/A	N/A
2-hydroxyethyl methacrylate	5050	N/A	N/A	N/A	N/A
methyl methacrylate	7872	N/A	N/A	N/A	N/A
styrene	2650	N/A	2770	11.8	N/A

Skin corrosion/irritation

Product/ingredient name	Result
styrene	Rabbit - Skin - Mild irritant <u>Amount/concentration applied:</u> 500 mg Rabbit - Skin - Moderate irritant <u>Amount/concentration applied:</u> 100 %

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name	Result
succinic anhydride	Rabbit - Eyes - Severe irritant <u>Amount/concentration applied:</u> 750 ug Rabbit - Eyes - Severe irritant <u>Amount/concentration applied:</u> 100 mg
styrene	Human - Eyes - Mild irritant <u>Amount/concentration applied:</u> 50 ppm Rabbit - Eyes - Moderate irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 100 mg Rabbit - Eyes - Severe irritant <u>Amount/concentration applied:</u> 100 mg

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Not available.

SECTION 11: Toxicological information

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
[2-[(2-methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate	STOT SE 3, H335 (Respiratory tract irritation)
methyl methacrylate	STOT SE 3, H335 (Respiratory tract irritation)

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
styrene	STOT RE 1, H372 (hearing organs)

Aspiration hazard

Not available.

Information on the likely routes of exposure

Not available.

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: Corrosive to the respiratory tract. Causes burns.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: May cause burns to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Easy-Mix PE-PP 45 Structural Acrylic Adhesive Resin

SECTION 11: Toxicological information

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effects	
Not available.	
Conclusion/Summary [Product]	: Not available.
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: May damage the unborn child.
11.2 Information on other hazards	
11.2.1 Endocrine disrupting properties	
Not available.	
Conclusion/Summary [Product]	: The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.
11.2.2 Other information	
Not available.	

SECTION 12: Ecological information

12.1 Toxicity	
Product/ingredient name	Result
tetrahydrofurfuryl methacrylate	Acute - LC50 - Fresh water Fish - Fathead minnow - <i>Pimephales promelas</i> - Juvenile (Fledgling, Hatchling, Weanling) Age: 28 to 34 days; Size: 20.9 mm; Weight: 0.134 g 34.7 mg/l [96 hours] Effect: Mortality
2-hydroxyethyl methacrylate	Acute - LC50 - Fresh water Fish - Fathead minnow - <i>Pimephales promelas</i> - Juvenile (Fledgling, Hatchling, Weanling) Age: 28 to 34 days; Size: 20.9 mm; Weight: 0.134 g 227 mg/l [96 hours] Effect: Mortality
methyl methacrylate	Acute - LC50 - Fresh water Fish - Fathead minnow - <i>Pimephales promelas</i> - Adult 130 mg/l [96 hours] Effect: Mortality
styrene	Acute - LC50 - Fresh water Fish - Fathead minnow - <i>Pimephales promelas</i> Age: 30 days; Size: 19 mm; Weight: 0.101 g 4020 µg/l [96 hours] Effect: Mortality
	Acute - EC50 - Fresh water Daphnia - Water flea - <i>Daphnia magna</i> Age: ≤24 hours

SECTION 12: Ecological information

4700 µg/l [48 hours]

Effect: Mortality

Acute - EC50 - Fresh water

Algae - Green algae - *Raphidocelis subcapitata*

720 µg/l [96 hours]

Effect: Population

Chronic - NOEC - Fresh water

Algae - Green algae - *Raphidocelis subcapitata*

63 µg/l [96 hours]

Effect: Population

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2-ethylhexyl methacrylate	4.95	37 [OECD 305]	Low
succinic anhydride	2.44	-	Low
2-hydroxyethyl methacrylate	0.42	-	Low
methyl methacrylate	1.38	-	Low
styrene	2.96	13.49	Low

12.4 Mobility in soil

Soil/Water partition coefficient

Product/ingredient name	logK _{oc}	K _{oc}
tetrahydrofurfuryl methacrylate	2	104.398
2-ethylhexyl methacrylate	2.5	304.158
[2-[(2-methyl-1-oxoallyl)oxy]ethyl]	1.7	52.6065
hydrogen succinate		
succinic anhydride	1.3	19.192
2-hydroxyethyl methacrylate	1.3	20.9282
methyl methacrylate	1.2	16.6906
styrene	3	896.322

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
tetrahydrofurfuryl methacrylate	N/A	N/A	Yes	Yes	No	N/A	No
2-ethylhexyl methacrylate	No	No	No	No	No	No	No
[2-[(2-methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate	No	No	No	No	No	No	No
succinic anhydride	No	No	No	No	No	No	No
2-hydroxyethyl methacrylate	No	No	No	No	No	No	No
methyl methacrylate	No	No	No	No	No	No	No
styrene	No	No	No	No	No	No	No

Mobility : Not available.

Conclusion/Summary : The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

SECTION 12: Ecological information

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
tetrahydrofurfuryl methacrylate	N/A	N/A	N/A	Yes	N/A	N/A	N/A
2-ethylhexyl methacrylate	No	N/A	No	No	No	N/A	No
[2-[(2-methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate	No	N/A	N/A	No	N/A	N/A	N/A
succinic anhydride	No	N/A	N/A	No	N/A	N/A	N/A
2-hydroxyethyl methacrylate	No	N/A	N/A	No	N/A	N/A	N/A
methyl methacrylate	No	N/A	N/A	No	N/A	N/A	N/A
styrene	No	N/A	No	Yes	No	N/A	No

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

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
tetrahydrofurfuryl methacrylate	N/A	N/A	N/A	Yes	N/A	N/A	N/A
2-ethylhexyl methacrylate	No	No	No	No	No	No	No
[2-[(2-methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate	No	No	No	No	No	No	No
succinic anhydride	No	No	No	No	No	No	No
2-hydroxyethyl methacrylate	No	No	No	No	No	No	No
methyl methacrylate	No	No	No	No	No	No	No
styrene	No	No	No	No	No	No	No

Conclusion/Summary : The product does not meet the criteria to be considered as a PBT or vPvB.
Regulation (EC) No. 1272/2008 [CLP]

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes.

European waste catalogue (EWC)

Waste code	Waste designation
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances

Packaging

SECTION 13: Disposal considerations

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)	
Can	15 01 10*	packaging containing residues of or contaminated by hazardous substances

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not available.	9006	Not available.	Not available.
14.2 UN proper shipping name	Not available.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Not available.	Not available.
14.3 Transport hazard class(es)	Not available.	9	Not available.	Not available.
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

ADN : The product is only regulated as a dangerous good when transported in tank vessels.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed above the relevant limit.

Substances of very high concern

None of the components are listed above the relevant limit.

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

Easy-Mix PE-PP 45 Structural Acrylic Adhesive Resin

SECTION 15: Regulatory information

Product/ingredient name	%	Designation [Usage]
Easy-Mix PE-PP 45 Structural Acrylic Adhesive Resin	≥90	3
tetrahydrofurfuryl methacrylate	≥25 - ≤50	30 30

Labeling : Restricted to professional users.

Synthetic polymer microparticles - Designation 78

Generic identity of polymer(s) : ☒ Not applicable.

Total percentage of synthetic polymer microparticles : ☒ Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Explosive precursors : Not applicable.

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
methyl methacrylate	DFG MAC-values list	-	Develop C	-
styrene	DFG MAC-values list	-	Carc 5, Develop C	-

Storage class (TRGS 510) : 6.1C

Hazardous incident ordinance

This product is not controlled under the Germany Hazardous Incident Ordinance.

Hazard class for water : 3

Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
5.2.1	Total dust	8
5.2.5	Organic substances	46.4
5.2.5 [I]	Organic substances	1.3
5.2.7.1.3	Reproductive toxic substances	45

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

SECTION 15: Regulatory information

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Eurasian Economic Union	: Russian Federation inventory : Not determined.
Japan	: Japan inventory (CSCL) : Not determined. Japan inventory (ISHL) : Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: All components are listed or exempted.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: All components are listed or exempted.

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
B = Bioaccumulative
BCF = Bioconcentration Factor
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
IMO = International Maritime Organization
M = Mobile
N/A = Not available
P = Persistent
PBT = Persistent, Bioaccumulative and Toxic
PMT = Persistent, Mobile and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SGG = Segregation Group
T = Toxic
vB = Very Bioaccumulative

SECTION 16: Other information

vM = Very Mobile
vP = Very Persistent
vPvB = Very Persistent and Very Bioaccumulative
vPvM = Very Persistent and Very Mobile

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Sens. 1, H317	Calculation method
Repr. 1B, H360D	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
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.
H360D	May damage the unborn child.
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 classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 1B	TOXIC TO REPRODUCTION - Category 1B
Repr. 2	TOXIC TO REPRODUCTION - Category 2
Resp. Sens. 1	RESPIRATORY SENSITIZATION - Category 1
Skin Corr. 1	SKIN CORROSION/IRRITATION - Category 1
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITIZATION - Category 1
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3

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