

SAFETY DATA SHEET



Plastic-Bond Resin

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

1.1 Product identifier

Product name : Plastic-Bond Resin
UFI : NNA1-NOHK-C007-N0M0
Product code : 105653
Color : White.
Product description : Adhesives
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

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]

Flam. Liq. 2, H225

Skin Irrit. 2, H315

Eye Dam. 1, H318

Skin Sens. 1, H317

STOT SE 3, H335

Aquatic Chronic 3, H412

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

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.

SECTION 2: Hazards identification

2.2 Label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: H225 - Highly flammable liquid and vapor.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H335 - May cause respiratory irritation.
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

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 - Avoid breathing vapor.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves. Wear eye or face protection.

Response

: P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
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.
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 or doctor.

Storage

: P405 - Store locked up.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

Disposal

: P501 - Dispose of waste according to applicable legislation.

Hazardous ingredients

: methyl methacrylate; methacrylic acid; maleic acid; p-toluene sulfonyl chloride; rosin and 2-phenylpropene

Supplemental label elements

: Not applicable.

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

: Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings

: Not 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.

Plastic-Bond Resin

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
methyl methacrylate	REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6	≥50 - ≤75	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	-	[1] [2]
methacrylic acid	REACH #: 01-2119463884-26 EC: 201-204-4 CAS: 79-41-4 Index: 607-088-00-5	≥3 - <5	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 1060 mg/kg ATE [Dermal] = 1100 mg/kg STOT SE 3, H335: C ≥ 1%	[1] [2]
maleic acid	REACH #: 01-2119488705-25 EC: 203-742-5 CAS: 110-16-7 Index: 607-095-00-3	≥1 - ≤3	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335	ATE [Oral] = 500 mg/kg Skin Sens. 1, H317: C ≥ 0.1%	[1]
2,6-di-tert-butyl-p-cresol	REACH #: 01-2119555270-46 EC: 204-881-4 CAS: 128-37-0	≥1 - ≤1.4	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1] [2]
α,α-dimethylbenzyl hydroperoxide	REACH #: 01-2119475796-19 EC: 201-254-7 CAS: 80-15-9 Index: 617-002-00-8	≥0.3 - <1	Org. Perox. E, H242 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 2, H411	ATE [Oral] = 800 mg/kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 700 ppm Skin Corr. 1B, H314: C ≥ 10% Skin Irrit. 2, H315: 3% ≤ C < 10% Eye Dam. 1, H318: C ≥ 3% Eye Irrit. 2, H319: 1% ≤ C < 3% STOT SE 3, H335: C ≥ 1% STOT RE 2, H373: C ≥ 3%	[1]
tosyl chloride	REACH #: 01-2119971273-36 EC: 202-684-8 CAS: 98-59-9	≥0.3 - <1	Met. Corr. 1, H290 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317	-	[1]
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide	REACH #: 01-2120140608-57 CAS: 1187441-10-6	≥0.3 - <1	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318	-	[1]
rosin	REACH #: 01-2119480418-32 EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7	≥0.3 - <1	Skin Sens. 1, H317	-	[1] [2]

Plastic-Bond Resin

SECTION 3: Composition/information on ingredients

2-phenylpropene	REACH #: 01-2119472426-35 EC: 202-705-0 CAS: 98-83-9	≥0.1 - ≤0.3	Flam. Liq. 3, H226 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Repr. 2, H361 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	STOT SE 3, H335: C ≥ 25%	[1] [2]
ethylenebis(oxyethylene) bis [3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]	EC: 253-039-2 CAS: 36443-68-2	≤0.1	Aquatic Chronic 1, H410	M [Chronic] = 10	[1]
Phosphoric acid	REACH #: 01-2119485924-24 EC: 231-633-2 CAS: 7664-38-2 Index: 015-011-00-6	≤0.1	Skin Corr. 1B, H314 Eye Dam. 1, H318	Skin Corr. 1B, H314: C ≥ 25% Skin Irrit. 2, H315: 10% ≤ C < 25% Eye Dam. 1, H318: C ≥ 25% Eye Irrit. 2, H319: 10% ≤ C < 25%	[1] [2]
cumene	REACH #: 01-2119473983-24 EC: 202-704-5 CAS: 98-82-8 Index: 601-024-00-X	<0.1	Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 See Section 16 for the full text of the H statements declared above.	-	[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

: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.

Inhalation

: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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.

SECTION 4: First aid measures

- Skin contact** : Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. 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** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** : Adverse symptoms may include the following:
stomach pains

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 dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. 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.

SECTION 5: Firefighting measures

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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. 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.

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

SECTION 7: Handling and storage

- 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. 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. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. 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

Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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.

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonnes	50000 tonnes

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
methyl methacrylate	<p>DFG MAC-values list (Germany, 7/2024) Develop C. Skin sensitizer.</p> <p>TWA 8 hours: 50 ml/m³.</p> <p>PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour].</p> <p>TWA 8 hours: 210 mg/m³.</p> <p>PEAK 15 minutes: 420 mg/m³ 4 times per shift [Interval: 1 hour].</p> <p>PEAK 15 minutes: 100 ml/m³ 4 times per shift [Interval: 1 hour].</p> <p>TRGS 900 OEL (Germany, 3/2025)</p> <p>TWA 8 hours: 210 mg/m³.</p> <p>PEAK 15 minutes: 420 mg/m³.</p> <p>TWA 8 hours: 50 ppm.</p> <p>PEAK 15 minutes: 100 ppm.</p> <p>EU OEL (Europe, 1/2022)</p>

SECTION 8: Exposure controls/personal protection

methacrylic acid	<p>TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. DFG MAC-values list (Germany, 7/2024) Develop C. TWA 8 hours: 50 ppm. TWA 8 hours: 180 mg/m³. PEAK 15 minutes: 360 mg/m³ 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour]. TRGS 900 OEL (Germany, 3/2025) PEAK 15 minutes: 360 mg/m³. PEAK 15 minutes: 100 ppm. TWA 8 hours: 180 mg/m³. TWA 8 hours: 50 ppm.</p>
2,6-di-tert-butyl-p-cresol	<p>DFG MAC-values list (Germany, 7/2024) Carc 4, Develop C. TWA 8 hours: 10 mg/m³. Form: inhalable fraction. PEAK 15 minutes: 40 mg/m³ 4 times per shift [Interval: 1 hour]. Form: inhalable fraction. TRGS 900 OEL (Germany, 3/2025) TWA 8 hours: 10 mg/m³. Form: inhalable fraction. PEAK 15 minutes: 40 mg/m³. Form: inhalable fraction.</p>
rosin 2-phenylpropene	<p>DFG MAC-values list (Germany, 7/2024) Skin sensitizer. DFG MAC-values list (Germany, 7/2024) Develop D. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 250 mg/m³. PEAK 15 minutes: 500 mg/m³ 4 times per shift [Interval: 1 hour]. TRGS 900 OEL (Germany, 3/2025) TWA 8 hours: 250 mg/m³. PEAK 15 minutes: 500 mg/m³. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm. EU OEL (Europe, 1/2022) TWA 8 hours: 50 ppm. TWA 8 hours: 246 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 492 mg/m³.</p>
Phosphoric acid	<p>DFG MAC-values list (Germany, 7/2024) Develop C. TWA 8 hours: 2 mg/m³. Form: inhalable fraction. PEAK 15 minutes: 4 mg/m³ 4 times per shift [Interval: 1 hour]. Form: inhalable fraction. TRGS 900 OEL (Germany, 3/2025) TWA 8 hours: 2 mg/m³. Form: inhalable fraction. PEAK 15 minutes: 4 mg/m³. Form: inhalable fraction. EU OEL (Europe, 1/2022) TWA 8 hours: 1 mg/m³. STEL 15 minutes: 2 mg/m³.</p>
cumene	<p>DFG MAC-values list (Germany, 7/2024) Carc 3B, Develop C. Absorbed through skin. TWA 8 hours: 10 ppm. PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 50 mg/m³. PEAK 15 minutes: 200 mg/m³ 4 times per shift [Interval: 1 hour]. TRGS 900 OEL (Germany, 3/2025) Absorbed through skin. TWA 8 hours: 50 mg/m³. PEAK 15 minutes: 200 mg/m³. TWA 8 hours: 10 ppm. PEAK 15 minutes: 40 ppm. EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m³. STEL 15 minutes: 50 ppm. STEL 15 minutes: 250 mg/m³.</p>

Plastic-Bond Resin

SECTION 8: Exposure controls/personal protection

Biological exposure indices

Product/ingredient name	Exposure indices
2,6-di-tert-butyl-p-cresol	DFG BEI-values list (Germany, 7/2024) BEI: 7 µg/l, Butylated hydroxytoluene acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift.
cumene	DFG BEI-values list (Germany, 7/2024) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 10 mg/g creatinine, 2-phenyl-2-propanol (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 10/2024) BEI: 10 mg/g creatinine, 2-phenyl-2-propanol (nach hydrolyse) [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

methyl methacrylate

Result

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

Plastic-Bond Resin

SECTION 8: Exposure controls/personal protection

Effects: Local

DNEL - General population - Short term - Inhalation

208 mg/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

208 mg/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

348.4 mg/m³

Effects: Systemic

DNEL - Workers - Short term - Inhalation

416 mg/m³

Effects: Local

methacrylic acid

DNEL - General population - Long term - Dermal

0.23 mg/cm²

Effects: Local

DNEL - Workers - Long term - Dermal

0.38 mg/cm²

Effects: Local

DNEL - Workers - Long term - Dermal

4.25 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Dermal

5.35 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Oral

5.35 mg/kg bw/day

Effects: Systemic

DNEL - General population - Long term - Inhalation

8.8 mg/m³

Effects: Local

DNEL - General population - Long term - Inhalation

11.7 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

39.3 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

44 mg/m³

Effects: Local

maleic acid

DNEL - Workers - Short term - Inhalation

3 mg/m³

Effects: Local

DNEL - Workers - Long term - Inhalation

3 mg/m³

Effects: Local

DNEL - Workers - Short term - Inhalation

Plastic-Bond Resin

SECTION 8: Exposure controls/personal protection

3 mg/m³
Effects: Systemic

DNEL - Workers - Long term - Inhalation

3 mg/m³
Effects: Systemic

2,6-di-tert-butyl-p-cresol

DNEL - General population - Long term - Oral

0.25 mg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Dermal

0.25 mg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Inhalation

0.435 mg/m³
Effects: Systemic

DNEL - Workers - Long term - Dermal

0.5 mg/kg bw/day
Effects: Systemic

DNEL - Workers - Long term - Inhalation

1.76 mg/m³
Effects: Systemic

α,α-dimethylbenzyl hydroperoxide

DNEL - Workers - Long term - Inhalation

6 mg/m³
Effects: Systemic

tosyl chloride

DNEL - Workers - Long term - Dermal

0.5 mg/kg bw/day
Effects: Systemic

DNEL - Workers - Long term - Inhalation

3.5 mg/m³
Effects: Systemic

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

DNEL - General population - Long term - Oral

0.5 mg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Dermal

0.5 mg/kg bw/day
Effects: Systemic

DNEL - Workers - Long term - Dermal

1 mg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Inhalation

3.53 mg/m³
Effects: Systemic

DNEL - Workers - Long term - Inhalation

7.05 mg/m³
Effects: Systemic

2-phenylpropene

DNEL - General population - Long term - Dermal

0.0523 mg/cm²
Effects: Local

Plastic-Bond Resin

SECTION 8: Exposure controls/personal protection

DNEL - General population - Long term - Oral
0.1 mg/kg bw/day
Effects: Systemic

DNEL - Workers - Long term - Dermal
0.10465 mg/cm²
Effects: Local

DNEL - General population - Long term - Dermal
1.4 mg/kg bw/day
Effects: Systemic

DNEL - Workers - Long term - Dermal
2.8 mg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Inhalation
4.83 mg/m³
Effects: Systemic

DNEL - Workers - Long term - Inhalation
246 mg/m³
Effects: Systemic

DNEL - Workers - Short term - Inhalation
492 mg/m³
Effects: Local

Phosphoric acid

DNEL - General population - Long term - Oral
0.1 mg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Inhalation
0.36 mg/m³
Effects: Local

DNEL - Workers - Long term - Inhalation
1 mg/m³
Effects: Local

DNEL - Workers - Short term - Inhalation
2 mg/m³
Effects: Local

DNEL - General population - Long term - Inhalation
4.57 mg/m³
Effects: Systemic

DNEL - Workers - Long term - Inhalation
10.7 mg/m³
Effects: Systemic

cumene

DNEL - General population - Long term - Dermal
1.2 mg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Oral
5 mg/kg bw/day
Effects: Systemic

DNEL - Workers - Long term - Dermal
15.4 mg/kg bw/day
Effects: Systemic

SECTION 8: Exposure controls/personal protection

DNEL - General population - Long term - Inhalation

16.6 mg/m³

Effects: Systemic

DNEL - Workers - Long term - Inhalation

100 mg/m³

Effects: Systemic

DNEL - Workers - Short term - Inhalation

250 mg/m³

Effects: Local

PNECs

Not available.

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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. 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

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.

Plastic-Bond Resin

SECTION 8: Exposure controls/personal protection

- 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** : White.
- Odor** : Acrylic. [Strong]
- Odor threshold** : Not available.
- Melting point/freezing point** : Not available.
- Boiling point or initial boiling point and boiling range** : >35°C (>95°F)
- Flammability** : Not available.
- Lower and upper explosion limit** : Not available.
- Flash point** : Closed cup: 11°C (51.8°F)
- Auto-ignition temperature** : Not applicable.
- Decomposition temperature** : Not available.
- pH** : Not applicable.
- Viscosity** : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C): >40 mm²/s
- 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	OECD 104			
cumene	3.72032	0.5				
2-phenylpropene	1.89766	0.25				
methacrylic acid	0.72756	0.097				
Phosphoric acid	0.03	0.004				
2,6-di-tert-butyl-p-cresol	0.00825	0.0011				
tosyl chloride	0.00098	0.00013				
maleic acid	0	0				
α,α-dimethylbenzyl hydroperoxide	0	0				

- Relative density** : Not available.

Plastic-Bond Resin

SECTION 9: Physical and chemical properties

Density : 1 to 1.03 g/cm³

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 : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5 Incompatible materials : Reactive or incompatible with the following materials:
oxidizing materials

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

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name

methyl methacrylate

Result

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

methacrylic acid

Rat - Oral - LD50

1060 mg/kg

Rabbit - Dermal - LD50

500 mg/kg

2,6-di-tert-butyl-p-cresol

Rat - Oral - LD50

890 mg/kg

α,α -dimethylbenzyl hydroperoxide

Rat - Dermal - LD50

500 mg/kg

Toxic effects: Behavioral - Convulsions or effect on seizure threshold Kidney, Ureter, and Bladder - Hematuria

Plastic-Bond Resin

SECTION 11: Toxicological information

Rat - Oral - LD50

800 mg/kg

Rat - Inhalation - LC50 Gas.

220 ppm [4 hours]

Toxic effects: Lung, Thorax, or Respiration - Dyspnea

rosin

Rat - Oral - LD50

7600 mg/kg

2-phenylpropene

Rat - Oral - LD50

4900 mg/kg

Phosphoric acid

Mouse - Oral - LD50

1.25 g/kg

Toxic effects: Lung, Thorax, or Respiration - Acute pulmonary edema Liver - Changes in liver weight

cumene

Rat - Oral - LD50

1400 mg/kg

Toxic effects: Gastrointestinal - Gastritis

Rat - Inhalation - LC50 Vapor

39000 mg/m³ [4 hours]

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Easy-Mix RK-7000 Structural Acrylic Adhesive Resin	9425.2	22222.2	77777.8	N/A	N/A
methyl methacrylate	7872	N/A	N/A	N/A	N/A
methacrylic acid	1060	1100	N/A	N/A	N/A
maleic acid	500	N/A	N/A	N/A	N/A
α,α-dimethylbenzyl hydroperoxide	800	1100	700	N/A	N/A
rosin	7600	N/A	N/A	N/A	N/A
2-phenylpropene	4900	N/A	N/A	N/A	N/A
cumene	N/A	N/A	N/A	39	N/A

Skin corrosion/irritation

Product/ingredient name

2,6-di-tert-butyl-p-cresol

Result

Human - Skin - Mild irritant

Duration of treatment/exposure: 48 hours

Amount/concentration applied: 500 mg

Rabbit - Skin - Moderate irritant

Duration of treatment/exposure: 48 hours

Amount/concentration applied: 500 mg

α,α-dimethylbenzyl hydroperoxide

Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

2-phenylpropene

Rabbit - Skin - Moderate irritant

Amount/concentration applied: 100 %

cumene

Rabbit - Skin - Mild irritant

Duration of treatment/exposure: 24 hours

Plastic-Bond Resin

SECTION 11: Toxicological information

Amount/concentration applied: 10 mg

Rabbit - Skin - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name

maleic acid

Result

Rabbit - Eyes - Severe irritant

Duration of treatment/exposure: 2 minutes

Amount/concentration applied: 1 %

2,6-di-tert-butyl-p-cresol

Rabbit - Eyes - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

2-phenylpropene

Rabbit - Eyes - Mild irritant

Amount/concentration applied: 91 mg

cumene

Rabbit - Eyes - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

Rabbit - Eyes - Mild irritant

Amount/concentration applied: 86 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.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Plastic-Bond Resin

SECTION 11: Toxicological information

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name

methyl methacrylate
methacrylic acid
maleic acid
 α,α -dimethylbenzyl hydroperoxide
2-phenylpropene
cumene

Result

STOT SE 3, H335 (Respiratory tract irritation)
STOT SE 3, H335 (Respiratory tract irritation)

Specific target organ toxicity (repeated exposure)

Product/ingredient name

α,α -dimethylbenzyl hydroperoxide

Result

STOT RE 2, H373

Aspiration hazard

Product/ingredient name

2-phenylpropene
cumene

Result

ASPIRATION HAZARD - Category 1
ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Not available.

Potential acute health effects

- Eye contact** : Causes serious eye damage.
Inhalation : May cause respiratory irritation.
Skin contact : Causes skin irritation. May cause an allergic skin reaction.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** : Adverse symptoms may include the following:
stomach pains

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

Short term exposure

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

Plastic-Bond Resin

SECTION 11: Toxicological information

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 : No known significant effects or critical hazards.

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

methyl methacrylate

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas* - Adult
130 mg/l [96 hours]
Effect: Mortality

methacrylic acid

Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna* - Neonate
Age: <24 hours
53 mg/l [21 days]
Effect: Reproduction

maleic acid

Acute - EC50 - Fresh water

Daphnia - Water flea - *Daphnia magna* - Larvae
Age: <24 hours
316.2 mg/l [48 hours]
Effect: Intoxication

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*
5000 µg/l [96 hours]
Effect: Mortality

2,6-di-tert-butyl-p-cresol

Chronic - NOEC - Fresh water

OECD
Algae - Green algae - *Raphidocelis subcapitata*
1 mg/l [72 hours]
Effect: Population

Acute - EC50 - Fresh water

OECD
Daphnia - Water flea - *Daphnia magna*
0.84 mg/l [48 hours]
Effect: Intoxication

Chronic - NOEC - Fresh water

OECD
Daphnia - Water flea - *Daphnia magna*
0.069 mg/l [21 days]

Plastic-Bond Resin

SECTION 12: Ecological information

Effect: Reproduction

Acute - LC50 - Fresh water

OECD

Fish - Medaka, high-eyes - *Oryzias latipes*

1.1 mg/l [96 hours]

Effect: Mortality

α,α -dimethylbenzyl hydroperoxide

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas* - Larvae

Age: <24 hours

12.7 mg/l [96 hours]

Effect: Mortality

Phosphoric acid

Acute - LC50 - Fresh water

Fish - Western mosquitofish - *Gambusia affinis* - Adult

138 ppm [96 hours]

Effect: Mortality

Acute - LC50 - Fresh water

US EPA

Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss*

Weight: 0.52 g

87 ppm [96 hours]

Effect: Mortality

Acute - EC50 - Fresh water

US EPA

Daphnia - Water flea - *Daphnia magna*

Age: <24 hours

105 ppm [48 hours]

Effect: Intoxication

Acute - LC50 - Fresh water

US EPA

Fish - Bluegill - *Lepomis macrochirus*

Weight: 0.39 g

60 ppm [96 hours]

Effect: Mortality

Acute - LC50 - Fresh water

US EPA

Daphnia - Water flea - *Daphnia magna*

Age: <48 hours

89 mg/l [48 hours]

Effect: Mortality

cumene

Acute - LC50 - Fresh water

Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss*

2700 µg/l [96 hours]

Effect: Mortality

Acute - EC50 - Marine water

Crustaceans - Brine shrimp - *Artemia sp.* - Nauplii

Age: 2 to 3

7.4 mg/l [48 hours]

Effect: Intoxication

Acute - EC50 - Fresh water

Algae - Green algae - *Raphidocelis subcapitata*

2600 µg/l [72 hours]

Effect: Growth

Plastic-Bond Resin

SECTION 12: Ecological information

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
methyl methacrylate	1.38	-	Low
methacrylic acid	0.93	-	Low
maleic acid	-1.3	-	Low
2,6-di-tert-butyl-p-cresol	5.1	330 to 1800 [OECD 305 C]	High
α,α-dimethylbenzyl hydroperoxide	1.6	9	Low
rosin	1.9 to 7.7	-	High
2-phenylpropene	3.48	15 to 140 [OECD 305 C]	Low
cumene	3.55	35.48	Low

12.4 Mobility in soil

Soil/Water partition coefficient

Product/ingredient name	logK _{oc}	K _{oc}
methyl methacrylate	1.2	16.6906
methacrylic acid	1.1	11.6958
maleic acid	0.94	8.6883
2,6-di-tert-butyl-p-cresol	3.7	4489.84
α,α-dimethylbenzyl hydroperoxide	1.7	46.6217
tosyl chloride	2.5	285.777
2-phenylpropene	2.5	344.119
ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]	5	99619.3
cumene	2.7	521.484

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
methyl methacrylate	No	No	No	No	No	No	No
methacrylic acid	No	No	No	No	No	No	No
maleic acid	No	No	No	No	No	No	No
2,6-di-tert-butyl-p-cresol	No	No	No	No	No	No	No
α,α-dimethylbenzyl hydroperoxide	No	No	No	No	No	No	No
tosyl chloride	No	No	No	No	No	No	No
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide	No	No	No	No	No	No	No
rosin	No	No	No	No	No	No	No
2-phenylpropene	No	No	No	No	No	No	No
ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]	No	No	No	No	No	No	No
Phosphoric acid	No	No	No	No	No	No	No
cumene	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

Plastic-Bond Resin

SECTION 12: Ecological information

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

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
methyl methacrylate	No	N/A	N/A	No	N/A	N/A	N/A
methacrylic acid	No	N/A	N/A	No	N/A	N/A	N/A
maleic acid	No	N/A	N/A	No	N/A	N/A	N/A
2,6-di-tert-butyl-p-cresol	No	N/A	No	No	No	N/A	No
α,α-dimethylbenzyl hydroperoxide	No	N/A	No	Yes	No	N/A	No
tosyl chloride	No	N/A	N/A	No	N/A	N/A	N/A
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide	No	N/A	N/A	No	N/A	N/A	N/A
rosin	No	N/A	N/A	No	N/A	N/A	N/A
2-phenylpropene	No	N/A	No	Yes	No	N/A	No
ethylenebis(oxyethylene) bis [3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]	No	N/A	N/A	No	N/A	N/A	N/A
Phosphoric acid	No	No	No	No	No	No	No
cumene	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
methyl methacrylate	No	No	No	No	No	No	No
methacrylic acid	No	No	No	No	No	No	No
maleic acid	No	No	No	No	No	No	No
2,6-di-tert-butyl-p-cresol	No	No	No	No	No	No	No
α,α-dimethylbenzyl hydroperoxide	No	No	No	No	No	No	No
tosyl chloride	No	No	No	No	No	No	No
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide	No	No	No	No	No	No	No
rosin	No	No	No	No	No	No	No
2-phenylpropene	No	No	No	No	No	No	No
ethylenebis(oxyethylene) bis [3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]	No	No	No	No	No	No	No
Phosphoric acid	No	No	No	No	No	No	No
cumene	No	No	No	No	No	No	No

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

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.

Plastic-Bond Resin

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

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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. 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	UN1133	UN1133	UN1133	UN1133
14.2 UN proper shipping name	ADHESIVES	ADHESIVES	ADHESIVES	Adhesives
14.3 Transport hazard class(es)	3 	3  	3 	3 
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

Plastic-Bond Resin

SECTION 14: Transport information

- ADR/RID** : **Hazard identification number** 33
Limited quantity 5 L
Special provisions 640C
Viscous liquid exception This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.
Tunnel code (D/E)
Remarks containing flammable liquid (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C not more than 110 kPa)
ADR Classification Code: F1
- ADN** : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Special provisions 640C
Remarks containing flammable liquid (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C not more than 110 kPa)
- IMDG** : **Emergency schedules** F-E, S-D
Viscous liquid exception This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.
Quantity limitation Passenger and Cargo Aircraft: 5 L. Packaging instructions: 353. Cargo Aircraft Only: 60 L. Packaging instructions: 364. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y341.
Special provisions A3

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

Product/ingredient name	%	Designation [Usage]
Easy-Mix RK-7000 Structural Acrylic Adhesive Resin	≥90	3

Labeling : Not applicable.

Synthetic polymer microparticles - Designation 78

Generic identity of polymer(s) : Not applicable.

Total percentage of synthetic polymer microparticles : Not applicable.

Other EU regulations

Plastic-Bond Resin

SECTION 15: Regulatory information

Industrial emissions : Not listed

(integrated pollution prevention and control) - Air

Industrial emissions : Not listed

(integrated pollution prevention and control) - Water

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 controlled under the Seveso Directive.

Danger criteria

Category
P5c

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
methyl methacrylate	DFG MAC-values list	-	Develop C	-
methacrylic acid	DFG MAC-values list	-	Develop C	-
2,6-di-tert-butyl-p-cresol	DFG MAC-values list	-	Carc 4, Develop C	-
2-phenylpropene	DFG MAC-values list	-	Develop D	-
phosphoric acid	DFG MAC-values list	-	Develop C	-
cumene	DFG MAC-values list	-	Carc 3B, Develop C	-

Storage class (TRGS 510) : 3

Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category	Reference number
P5c	1.2.5.3

Hazard class for water : 1

Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
5.2.1	Total dust	4.8
5.2.5	Organic substances	73.3
5.2.5 [I]	Organic substances	72.4
5.2.7.1.1 [II]	Carcinogenic substances	0.09
5.2.7.2	Poorly degradable, easily accumulating and highly toxic organic substances	0.09

AOX : The product contains organically bound halogens and can contribute to the AOX value in waste water.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

SECTION 15: Regulatory information

Montreal Protocol

Not listed.

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 : All components are listed or exempted.
Japan	: Japan inventory (CSCL) : Not determined. Japan inventory (ISHL) : Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
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
-----------------------------------	--

Plastic-Bond Resin

SECTION 16: Other information

SGG = Segregation Group
 T = Toxic
 vB = Very Bioaccumulative
 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
Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H242	Heating may cause a fire.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 1B	CARCINOGENICITY - Category 1B
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
Met. Corr. 1	CORROSIVE TO METALS - Category 1
Org. Perox. E	ORGANIC PEROXIDES - Type E
Repr. 2	TOXIC TO REPRODUCTION - Category 2
Skin Corr. 1A	SKIN CORROSION/IRRITATION - Category 1A
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITIZATION - Category 1
Skin Sens. 1A	SKIN SENSITIZATION - Category 1A
Skin Sens. 1B	SKIN SENSITIZATION - Category 1B

Plastic-Bond Resin

SECTION 16: Other information

STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3

Date of printing : 05/02/2026

Date of issue/ Date of revision : 29/01/2026

Date of previous issue : 04/11/2025

Version : 4.6

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.