# SAFETY DATA SHEET

Easy-Mix RK-7000 Structural Acrylic Adhesive Resin

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

### 1.1 Product identifier

**Product name** : Easy-Mix RK-7000 Structural Acrylic Adhesive Resin

**UFI** : 9GA1-N04S-R007-AAEV

**Product code** : 105651

**Colour** : White.

**Product type** : Liquid.

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

| Identified uses |
|---|
| Adhesives |

| Uses advised against | Reason |
|---|---|
| Not applicable. | |

### 1.3 Details of the supplier of the safety data sheet

WEICON GmbH & Co. KG
Königsberger Str. 25,
48157 Münster, Germany
phone: +49 251 93220,
Fax: +49 251 9322244
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 Centre**

**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 vapour.
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**

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

**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
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.

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

## SECTION 3: Composition/information on ingredients

| | | | | | |
|---|---|---|---|---|---|
| 2-phenylpropene | REACH #: 01-2119472426-35<br>EC: 202-705-0<br>CAS: 98-83-9 | ≥0.1 - ≤0.3 | Flam. Liq. 3, H226<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317<br>Repr. 2, H361<br>STOT SE 3, H335<br>Asp. Tox. 1, H304<br>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<br>CAS: 36443-68-2 | ≤0.1 | Aquatic Chronic 1, H410 | M [Chronic] = 10 | [1] |
| Phosphoric acid | REACH #: 01-2119485924-24<br>EC: 231-633-2<br>CAS: 7664-38-2<br>Index: 015-011-00-6 | ≤0.1 | Skin Corr. 1B, H314<br>Eye Dam. 1, H318 | Skin Corr. 1B, H314: C ≥ 25%<br>Skin Irrit. 2, H315: 10% ≤ C < 25%<br>Eye Dam. 1, H318: C ≥ 25%<br>Eye Irrit. 2, H319: 10% ≤ C < 25% | [1] [2] |
| cumene | REACH #: 01-2119473983-24<br>EC: 202-704-5<br>CAS: 98-82-8<br>Index: 601-024-00-X | <0.1 | Flam. Liq. 3, H226<br>Carc. 1B, H350<br>STOT SE 3, H335<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411<br>**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 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, $CO_2$, 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 vapour. 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialised 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 spilt 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 material 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. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry 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 the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

**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. Do not get in eyes or on skin or clothing. Do not breathe vapour 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 oxidising 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 unlabelled 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 tonne | 50000 tonne |

### 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 | **TRGS 900 OEL (Germany, 4/2023).**<br>TWA: 210 mg/m³ 8 hours.<br>PEAK: 420 mg/m³ 15 minutes.<br>TWA: 50 ppm 8 hours.<br>PEAK: 100 ppm 15 minutes.<br>**DFG MAC-values list (Germany, 7/2022). Skin sensitiser.**<br>TWA: 50 ml/m³ 8 hours.<br>PEAK: 100 ppm, 4 times per shift, 15 minutes.<br>TWA: 210 mg/m³ 8 hours. |

## SECTION 8: Exposure controls/personal protection

| | |
|---|---|
| | PEAK: 420 mg/m³, 4 times per shift, 15 minutes.<br>PEAK: 100 ml/m³, 4 times per shift, 15 minutes. |
| methacrylic acid | **DFG MAC-values list (Germany, 7/2022).**<br>TWA: 50 ppm 8 hours.<br>TWA: 180 mg/m³ 8 hours.<br>PEAK: 360 mg/m³, 4 times per shift, 15 minutes.<br>PEAK: 100 ppm, 4 times per shift, 15 minutes.<br>**TRGS 900 OEL (Germany, 4/2023).**<br>PEAK: 360 mg/m³ 15 minutes.<br>PEAK: 100 ppm 15 minutes.<br>TWA: 180 mg/m³ 8 hours.<br>TWA: 50 ppm 8 hours. |
| 2,6-di-tert-butyl-p-cresol | **DFG MAC-values list (Germany, 7/2022).**<br>TWA: 10 mg/m³ 8 hours. Form: inhalable fraction<br>PEAK: 40 mg/m³, 4 times per shift, 15 minutes. Form: inhalable fraction<br>**TRGS 900 OEL (Germany, 4/2023).**<br>TWA: 10 mg/m³ 8 hours. Form: Inhalable fraction<br>PEAK: 40 mg/m³ 15 minutes. Form: Inhalable fraction |
| rosin | **DFG MAC-values list (Germany, 7/2022). Skin sensitiser.** |
| 2-phenylpropene | **TRGS 900 OEL (Germany, 4/2023).**<br>TWA: 250 mg/m³ 8 hours.<br>PEAK: 500 mg/m³ 15 minutes.<br>TWA: 50 ppm 8 hours.<br>PEAK: 100 ppm 15 minutes.<br>**DFG MAC-values list (Germany, 7/2022).**<br>TWA: 50 ppm 8 hours.<br>PEAK: 100 ppm, 4 times per shift, 15 minutes.<br>TWA: 250 mg/m³ 8 hours.<br>PEAK: 500 mg/m³, 4 times per shift, 15 minutes. |
| Phosphoric acid | **TRGS 900 OEL (Germany, 4/2023).**<br>TWA: 2 mg/m³ 8 hours. Form: Inhalable fraction<br>PEAK: 4 mg/m³ 15 minutes. Form: Inhalable fraction<br>**DFG MAC-values list (Germany, 7/2022).**<br>TWA: 2 mg/m³ 8 hours. Form: inhalable fraction<br>PEAK: 4 mg/m³, 4 times per shift, 15 minutes. Form: inhalable fraction |
| cumene | **TRGS 900 OEL (Germany, 4/2023). Absorbed through skin.**<br>TWA: 50 mg/m³ 8 hours.<br>PEAK: 200 mg/m³ 15 minutes.<br>TWA: 10 ppm 8 hours.<br>PEAK: 40 ppm 15 minutes.<br>**DFG MAC-values list (Germany, 7/2022). Absorbed through skin.**<br>TWA: 10 ppm 8 hours.<br>PEAK: 40 ppm, 4 times per shift, 15 minutes.<br>TWA: 50 mg/m³ 8 hours.<br>PEAK: 200 mg/m³, 4 times per shift, 15 minutes. |

**Biological exposure indices**

| Product/ingredient name | Exposure indices |
|---|---|

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| | |
|---|---|
| 2,6-di-tert-butyl-p-cresol | **DFG BEI-values list (Germany, 7/2022)**<br>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, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228).**<br>BEI: 10 mg/g creatinine, 2-phenyl-2-propanol (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift.<br>**TRGS 903 - BEI Values (Germany, 2/2022)**<br>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 | Type | Exposure | Value | Population | Effects |
|---|---|---|---|---|---|
| methyl methacrylate | DNEL | Short term Dermal | 1.5 mg/cm² | General population | Local |
| | DNEL | Long term Dermal | 1.5 mg/cm² | General population | Local |
| | DNEL | Short term Dermal | 1.5 mg/cm² | Workers | Local |
| | DNEL | Long term Dermal | 1.5 mg/cm² | Workers | Local |
| | DNEL | Long term Oral | 8.2 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 8.2 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 13.67 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 74.3 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 104 mg/m³ | General population | Local |
| | DNEL | Short term Inhalation | 208 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 208 mg/m³ | Workers | Local |
| | DNEL | Long term Inhalation | 348.4 mg/m³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 416 mg/m³ | Workers | Local |
| methacrylic acid | DNEL | Long term Dermal | 0.23 mg/cm² | General population | Local |

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|---|---|---|---|---|---|
| | DNEL | Long term Dermal | 0.38 mg/ cm² | Workers | Local |
| | DNEL | Long term Dermal | 4.25 mg/ kg bw/day | Workers | Systemic |
| | DNEL | Long term Dermal | 5.35 mg/ kg bw/day | General population | Systemic |
| | DNEL | Long term Oral | 5.35 mg/ kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 8.8 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 11.7 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 39.3 mg/m³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 44 mg/m³ | Workers | Local |
| maleic acid | DNEL | Short term Inhalation | 3 mg/m³ | Workers | Local |
| | DNEL | Long term Inhalation | 3 mg/m³ | Workers | Local |
| | DNEL | Short term Inhalation | 3 mg/m³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 3 mg/m³ | Workers | Systemic |
| 2,6-di-tert-butyl-p-cresol | DNEL | Long term Oral | 0.25 mg/ kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.25 mg/ kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 0.435 mg/ m³ | General population | Systemic |
| | DNEL | Long term Dermal | 0.5 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 1.76 mg/m³ | Workers | Systemic |
| α,α-dimethylbenzyl hydroperoxide | DNEL | Long term Inhalation | 6 mg/m³ | Workers | Systemic |
| tosyl chloride | DNEL | Long term Dermal | 0.5 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 3.5 mg/m³ | Workers | Systemic |
| 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide | DNEL | Long term Oral | 0.5 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.5 mg/kg | General | Systemic |

## SECTION 8: Exposure controls/personal protection

| | | | | | |
|---|---|---|---|---|---|
| | | | bw/day | population | |
| | DNEL | Long term Dermal | 1 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 3.53 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 7.05 mg/m³ | Workers | Systemic |
| rosin | DNEL | Long term Inhalation | 10 mg/m³ | Workers | Local |
| | DNEL | Long term Oral | 1.0655 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 1.0655 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 2.131 mg/kg bw/day | Workers | Systemic |
| 2-phenylpropene | DNEL | Long term Dermal | 0.0523 mg/cm² | General population | Local |
| | DNEL | Long term Oral | 0.1 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.10465 mg/cm² | Workers | Local |
| | DNEL | Long term Dermal | 1.4 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 2.8 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 4.83 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 246 mg/m³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 492 mg/m³ | Workers | Local |
| Phosphoric acid | DNEL | Long term Oral | 0.1 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 0.36 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 1 mg/m³ | Workers | Local |
| | DNEL | Short term Inhalation | 2 mg/m³ | Workers | Local |
| | DNEL | Long term Inhalation | 4.57 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 10.7 mg/m³ | Workers | Systemic |

## SECTION 8: Exposure controls/personal protection

| | | | | | |
|---|---|---|---|---|---|
| cumene | DNEL | Long term Dermal | 1.2 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Oral | 5 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 15.4 mg/ kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 16.6 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 100 mg/m³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 250 mg/m³ | Workers | Local |

**PNECs**

No PNECs 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, vapour 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): nitrile rubber; 0,4 mm; EN 374-5 Cat. III ; 4 - 8 hours (breakthrough time): Viton®/butyl rubber; 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.

## 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 vapour (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.

**Colour** : White.

**Odour** : Acrylic. [Strong]

**Odour threshold** : Not available.

**Melting point/freezing point** : Not available.

**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** : Kinematic (40°C): >40 $mm^2/s$

Not available.

**Solubility in water** : Not available.

**Partition coefficient: n-octanol/water** : Not applicable.

**Vapour pressure** :

| | Vapour Pressure at 20˚C | | | Vapour pressure at 50˚C | | |
|---|---|---|---|---|---|---|
| **Ingredient name** | **mm Hg** | **kPa** | **Method** | **mm Hg** | **kPa** | **Method** |
| methyl methacrylate | 27.75236 | 3.7 | | | | |
| 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 | | | | |
| p-toluene sulfonyl chloride | 0.00098 | 0.00013 | | | | |
| maleic acid | 0 | 0 | OECD 104 | | | |
| α,α-dimethylbenzyl hydroperoxide | 0 | 0 | | | | |

**Relative density** : Not available.

**Density** : 1 to 1.03 $g/cm^3$

**Vapour density** : Not available.

## SECTION 9: Physical and chemical properties

**Particle characteristics**

**Median particle size** : Not applicable.

**9.2.1 Information with regard to physical hazard classes**

**Explosive properties** : Not available.

**Oxidising 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 pressurise, 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: oxidising 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 | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| methyl methacrylate | LD50 Dermal | Rabbit | >5 g/kg | - |
| | LD50 Oral | Rat | 7872 mg/kg | - |
| methacrylic acid | LD50 Dermal | Rabbit | 500 mg/kg | - |
| | LD50 Oral | Rat | 1060 mg/kg | - |
| 2,6-di-tert-butyl-p-cresol | LD50 Oral | Rat | 890 mg/kg | - |
| α,α-dimethylbenzyl hydroperoxide | LC50 Inhalation Gas. | Rat | 220 ppm | 4 hours |
| | LD50 Dermal | Rat | 500 mg/kg | - |
| | LD50 Oral | Rat | 800 mg/kg | - |
| rosin | LD50 Oral | Rat | 7600 mg/kg | - |
| 2-phenylpropene | LD50 Oral | Rat | 4900 mg/kg | - |
| phosphoric acid | LD50 Oral | Mouse | 1.25 g/kg | - |
| cumene | LC50 Inhalation Vapour | Rat | 39000 mg/m³ | 4 hours |
| | LD50 Oral | Rat | 1400 mg/kg | - |

# SECTION 11: Toxicological information

**Conclusion/Summary** : Not available.

**Acute toxicity estimates**

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (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 |

**Irritation/Corrosion**

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|---|---|---|---|---|
| maleic acid | Eyes - Severe irritant | Rabbit | - | 2 minutes 1 % | - |
| 2,6-di-tert-butyl-p-cresol | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 mg | - |
| | Skin - Mild irritant | Human | - | 48 hours 500 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 48 hours 500 mg | - |
| α,α-dimethylbenzyl hydroperoxide | Skin - Mild irritant | Rabbit | - | 500 mg | - |
| 2-phenylpropene | Eyes - Mild irritant | Rabbit | - | 91 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 100 % | - |
| cumene | Eyes - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| | Eyes - Mild irritant | Rabbit | - | 86 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 10 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 100 mg | - |

**Conclusion/Summary** : Not available.

**Sensitisation**

**Conclusion/Summary** : Not available.

**Mutagenicity**

**Conclusion/Summary** : Not available.

**Carcinogenicity**

**Conclusion/Summary** : Not available.

**Reproductive toxicity**

**Conclusion/Summary** : Not available.

**Teratogenicity**

**Conclusion/Summary** : Not available.

# SECTION 11: Toxicological information

**Specific target organ toxicity (single exposure)**

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|---|---|---|
| methyl methacrylate | Category 3 | - | Respiratory tract irritation |
| methacrylic acid | Category 3 | - | Respiratory tract irritation |
| maleic acid | Category 3 | - | Respiratory tract irritation |
| α,α-dimethylbenzyl hydroperoxide | Category 3 | - | Respiratory tract irritation |
| 2-phenylpropene | Category 3 | - | Respiratory tract irritation |
| cumene | Category 3 | - | Respiratory tract irritation |

**Specific target organ toxicity (repeated exposure)**

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|---|---|---|
| α,α-dimethylbenzyl hydroperoxide | Category 2 | - | - |

**Aspiration hazard**

| Product/ingredient name | Result |
|---|---|
| 2-phenylpropene | ASPIRATION HAZARD - Category 1 |
| cumene | ASPIRATION HAZARD - Category 1 |

**Information on 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 as well as chronic effects from short and long-term exposure**

# SECTION 11: Toxicological information

**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**

Not available.

**Conclusion/Summary** : 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.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

#### 11.2.2 Other information

Not available.

# SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| methyl methacrylate | Acute LC50 130000 µg/l Fresh water | Fish - *Pimephales promelas* - Adult | 96 hours |
| methacrylic acid | Chronic NOEC 53 mg/l Fresh water | Daphnia - *Daphnia magna* - Neonate | 21 days |
| maleic acid | Acute EC50 316200 µg/l Fresh water | Daphnia - *Daphnia magna* - Larvae | 48 hours |
| | Acute LC50 5000 µg/l Fresh water | Fish - *Pimephales promelas* | 96 hours |
| 2,6-di-tert-butyl-p-cresol | Acute EC50 1440 µg/l Fresh water | Daphnia - *Daphnia pulex* - Neonate | 48 hours |
| α,α-dimethylbenzyl hydroperoxide | Acute LC50 12.7 mg/l Fresh water | Fish - *Pimephales promelas* - Larvae | 96 hours |
| Phosphoric acid | Acute EC50 105 ppm Fresh water | Daphnia - *Daphnia magna* | 48 hours |
| | Acute LC50 89 mg/l Fresh water | Daphnia - *Daphnia magna* | 48 hours |
| | Acute LC50 138 ppm Fresh water | Fish - *Gambusia affinis* - Adult | 96 hours |
| | Acute LC50 60 ppm Fresh water | Fish - *Lepomis macrochirus* | 96 hours |
| | Acute LC50 87 ppm Fresh water | Fish - *Oncorhynchus mykiss* | 96 hours |
| cumene | Acute EC50 7.4 mg/l Marine water | Crustaceans - *Artemia sp.* - | 48 hours |

# SECTION 12: Ecological information

| | | | |
|---|---|---|---|
| | | Nauplii | |
| | Acute EC50 10.6 mg/l Fresh water | Daphnia - *Daphnia magna* - Neonate | 48 hours |
| | Acute LC50 2700 µg/l Fresh water | Fish - *Oncorhynchus mykiss* | 96 hours |

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** : 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 | High |
| α,α-dimethylbenzyl hydroperoxide | 1.6 | 9 | Low |
| rosin | 1.9 to 7.7 | - | High |
| 2-phenylpropene | 3.48 | 15 to 140 | Low |
| cumene | 3.55 | 35.48 | Low |

### 12.4 Mobility in soil

**Soil/water partition coefficient ($K_{OC}$)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Endocrine disrupting properties

Not available.

### 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**

## SECTION 13: Disposal considerations

**Methods of disposal** : The generation of waste should be avoided or minimised 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** : The classification of the product may meet the criteria for a hazardous waste.

**Packaging**

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

**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. Vapour 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 spilt 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**

**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.

## SECTION 14: Transport information

**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 authorisation**

**Annex XIV**

None of the components are listed.

**Substances of very high concern**

None of the components are listed.

**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 |

**Labelling** : 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 (1005/2009/EU)**

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**

# SECTION 15: Regulatory information

| Category |
|---|
| P5c |

**National regulations**

| Product/ingredient name | List name | Name on list | Classification | Notes |
|---|---|---|---|---|
| 2,6-di-tert-butyl-p-cresol | DFG MAC-values list | 3,5-Di-tert-butyl-4-hydroxytoluene; 2,6-Di-tert-butyl-p-cresol | K4 | - |
| cumene | DFG MAC-values list | Isopropylbenzene; Cumene | K3B | - |

**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 5.2.5: 60.3-76.3%
TA-Luft Class I - Number 5.2.5: 1.3-2.3%

**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.

**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.

## SECTION 15: Regulatory information

**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** : ATE = Acute Toxicity Estimate
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
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

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

| Classification | Justification |
|---|---|
| Flam. Liq. 2, H225 | On basis of test data |
| Skin Irrit. 2, H315 | Calculation method |
| Eye Dam. 1, H318 | Calculation method |
| Skin Sens. 1, H317 | Calculation method |
| STOT SE 3, H335 | Calculation method |
| Aquatic Chronic 3, H412 | Calculation method |

**Full text of abbreviated H statements**

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| 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]**

## SECTION 16: Other information

| | |
|---|---|
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Acute 1 | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - 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 | REPRODUCTIVE TOXICITY - 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 SENSITISATION - Category 1 |
| Skin Sens. 1A | SKIN SENSITISATION - Category 1A |
| Skin Sens. 1B | SKIN SENSITISATION - Category 1B |
| STOT RE 2 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |

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**Notice to reader**

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**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.**