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<p><b>Precautionary statements</b></p> <p><b>2.3.) Other hazards</b></p>	<p><b>P260</b> Do not breathe dust/fume/gas/must/vapours/spray.  <b>P280</b> Wear protective gloves/protective clothing/eye protection/face protection.  <b>P305+P351+P338</b> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  <b>P337+P313</b> If eye irritation persists: Get medical advice/attention.  <b>P501</b> This material and its container must be disposed of as hazardous waste.</p> <p>See attached safety data sheet and/or usage instructions.          No risks worthy of mention.</p>															
<p><b>3.) <u>COMPOSITION/INFORMATION ON INGREDIENTS</u></b></p> <p><b>3.1.) Mixtures</b></p> <p><b>Chemical characterization:</b></p> <p><b>3.2.) Hazardous components</b></p> <table border="1" data-bbox="264 1025 1442 1283"> <thead> <tr> <th>Chemical name</th> <th></th> <th>Quantity</th> <th>Classification according to Directive 67/548/EEC</th> <th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th> </tr> </thead> <tbody> <tr> <td>Glutaric acid</td> <td>CAS-No 110-94-1 Index No 203-817-2 REACH-No</td> <td>25-40 %</td> <td>Xi – Irritant R36</td> <td>Eye Irrit. 2; H319</td> </tr> <tr> <td>Adipic acid</td> <td>CAS-No 124-04-9 Index No 204-673-3 Index-No 607-144-00-9 REACH-No</td> <td>20-30 %</td> <td>Xi – Irritant R36</td> <td>Eye Irrit. 2; H319</td> </tr> </tbody> </table> <p>Full text of R-, H- and EUH-phrases: see section 16.</p> <p><b>Further Information</b></p>	Chemical name		Quantity	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Glutaric acid	CAS-No 110-94-1 Index No 203-817-2 REACH-No	25-40 %	Xi – Irritant R36	Eye Irrit. 2; H319	Adipic acid	CAS-No 124-04-9 Index No 204-673-3 Index-No 607-144-00-9 REACH-No	20-30 %	Xi – Irritant R36	Eye Irrit. 2; H319	<p>Mixture related information          Data apply to the main component. resin. / Dye carrier pigmented.</p> <p>Contains: resin. &gt;&gt;No risks worthy of mention.</p>
Chemical name		Quantity	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]												
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<p><b>4.) <u>FIRST AID MEASURES</u></b></p> <p><b>4.1.) Description of first aid measures</b></p> <p><b>General information:</b></p> <p><b>After inhalation:</b></p> <p><b>After contact with skin:</b></p> <p><b>After contact with eyes:</b></p> <p><b>After ingestion:</b></p> <p><b>4.2.) Most important symptoms and effects, both acute and delayed</b></p> <p><b>4.3.) Indication of any immediate medical attention and special treatment needed</b></p>	<p>In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).</p> <p>Provide fresh air.</p> <p>Wash with plenty of water. Change contaminated clothing.</p> <p>If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.</p> <p>Rinse mouth immediately and drink plenty of water.</p> <p>Rinse mouth immediately and drink plenty of water.</p> <p>No known symptoms to date.</p>															



<p><b>5.) <u>FIREFIGHTING MEASURES</u></b></p> <p><b>5.1.) Extinguishing media</b></p> <p><b>Suitable extinguishing media:</b></p> <p><b>5.2.) Special hazards arising from the substance or mixture</b></p> <p><b>5.3.) Advice for firefighters</b></p> <p><b>Additional information:</b></p>	<p>Co-ordinate fire-fighting measures to the fire surroundings.</p> <p>The product itself does not burn.</p> <p>In case of fire: Wear self-contained breathing apparatus.</p> <p>Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.</p>
<p><b>6.) <u>ACCIDENTAL RELEASE MEASURES</u></b></p> <p><b>6.1.) Personal precautions, protective equipment and emergency procedures</b></p> <p><b>6.2.) Environmental precautions</b></p> <p><b>6.3.) Methods and material for containment and cleaning up</b></p> <p><b>6.4.) Reference to other sections</b></p>	<p>Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.</p> <p>Do not allow to enter into surface water or drains.</p> <p>Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.</p> <p>Treat the recovered material as prescribed in the section on waste disposal. See protective measures under point 7 and 8.</p>
<p><b>7.) <u>HANDLING AND STORAGE</u></b></p> <p><b>7.1.) Precautions for safe handling</b></p> <p><b>Advice on safe handling:</b></p> <p><b>Advice on protection against fire and explosion:</b></p> <p><b>Further information on handling:</b></p> <p><b>7.2.) Conditions for safe storage, including any incompatibilities</b></p> <p><b>Requirements for storage rooms and vessels:</b></p> <p><b>Advice on storage compatibility:</b></p> <p><b>Further information on storage conditions:</b></p> <p><b>7.3.) Specific end use(s)</b></p>	<p>If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.</p> <p>Not highly flammable.</p> <p>Avoid contact with skin and eyes.</p> <p>Keep container tightly closed.</p> <p>To follow: Storage class:</p> <p>Protect against direct sunlight.</p> <p>Surface active agent. Further information: refer to Technical Data Sheet.</p>



<p>8.) <b><u>EXPOSURE CONTROLS/PERSONAL PROTECTION</u></b></p> <p>8.1.) Control parameters</p> <p>8.2.) Exposure controls</p> <p><b>Appropriate engineering controls:</b></p> <p><b>Protection and hygiene measures:</b></p> <p><b>Eye/face protection:</b></p> <p><b>Hand protection:</b></p> <p><b>Skin protection:</b></p> <p><b>Respiratory protection:</b></p> <p><b>Environmental exposure controls:</b></p>	<p>Do not breathe gas/fumes/vapour/spray.</p> <p>Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.</p> <p>For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).</p> <p><b><u>Additional protection measures for the hands</u></b></p> <p>Hand protection: DIN EN 374          -CR (polychloroprenes, Chloroprene rubber).          Thickness of glove material: 0,65 mm          penetration time (maximum wearing period): &gt; 120 min.          -NBR (Nitrile rubber).          Thickness of glove material: 0,4 mm          penetration time (maximum wearing period): &gt; 480 Min.          Breakthrough times and swelling properties of the material must be taken into consideration.          Take recovery periods for skin regeneration.          In the case of wanting to use the gloves again, clean them before taking off and air them well.          Use gloves only once.          When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.          Before using check leak tightness / impermeability.</p> <p>For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).</p> <p>(In case of inadequate ventilation) wear respiratory protection. Use appropriate respiratory protection. Use only respiratory protection equipment with CE-symbol including four digit test number. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!          Filtering device (full mask or mouthpiece) with filter: A</p> <p>No special measures are necessary.</p>
<p>9.) <b><u>PHYSICAL AND CHEMICAL PROPERTIES</u></b></p> <p>9.1.) Information on basic physical and chemical properties</p> <p><b>Physical state:</b></p> <p><b>Colour:</b></p> <p><b>Odour:</b></p>	<p>solid          light yellow – bright green          characteristic</p>



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<p><b>pH-Value:</b></p> <p><b>Changes in the physical state:</b></p> <p><b>Melting point:</b>  <b>Initial boiling point and boiling range:</b>  <b>Density (at 20 °C):</b></p>	<p style="text-align: center;"><b>Test method</b></p> <p>Not applicable etc.:</p> <p>ca. 100 °C          &gt; 350 °C          ca. 1,3 g/cm<sup>3</sup></p>																										
<p><b>10.) <u>STABILITY AND REACTIVITY</u></b></p> <p><b>10.1.) Reactivity</b></p> <p><b>10.2.) Chemical stability</b></p> <p><b>10.3.) Possibility of hazardous reactions</b></p> <p><b>10.4.) Conditions to avoid</b></p> <p><b>10.5.) Incompatible materials</b></p> <p><b>10.6.) Hazardous decomposition products</b></p> <p><b>Further information:</b></p>	<p>No risks worthy of mention.</p> <p>Stability and reactivity: Yes.</p> <p>No risks worthy of mention.          Reacts violently with peroxides.          Alkali metals.</p> <p>Keep away from heat.</p> <p>No data available</p> <p>Thermal decomposition can lead to the escape of irritating gases and vapours.</p> <p>No special measures are necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.          Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.</p>																										
<p><b>11.) <u>TOXICOLOGICAL INFORMATION</u></b></p> <p><b>11.1.) Information on toxicological effects</b></p> <p><b>Toxicocinetics, metabolism and distribution:</b></p> <p><b>Acute toxicity</b></p> <table border="1" data-bbox="264 1608 1461 1809"> <thead> <tr> <th>Chemical name</th> <th>CAS-No</th> <th>Exposure routes</th> <th>Method</th> <th>Dose</th> <th>Species</th> <th>Source</th> </tr> </thead> <tbody> <tr> <td>Glutaric acid</td> <td>110-94-1</td> <td>oral</td> <td>LD50</td> <td>6000 mg/kg</td> <td></td> <td></td> </tr> <tr> <td rowspan="2">Adipic acid</td> <td rowspan="2">124-04-9</td> <td>oral</td> <td>LD50</td> <td>ca. 5700 mg/kg</td> <td>Rat</td> <td></td> </tr> <tr> <td>inhalative (4 h) aerosol</td> <td>LC50</td> <td>&gt;7,7 mg/l</td> <td>Rat</td> <td></td> </tr> </tbody> </table> <p><b>Irritation and corrosivity:</b></p> <p><b>Additional information on tests:</b></p>	Chemical name	CAS-No	Exposure routes	Method	Dose	Species	Source	Glutaric acid	110-94-1	oral	LD50	6000 mg/kg			Adipic acid	124-04-9	oral	LD50	ca. 5700 mg/kg	Rat		inhalative (4 h) aerosol	LC50	>7,7 mg/l	Rat		<p>No data available.</p> <p>Irritation to eyes.</p> <p>The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).</p>
Chemical name	CAS-No	Exposure routes	Method	Dose	Species	Source																					
Glutaric acid	110-94-1	oral	LD50	6000 mg/kg																							
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## 12.) ECOLOGICAL INFORMATION

### 12.1.) Toxicity

**Adipic acid**  
**CAS-No 124-04-9**

Aquatic toxicity	Method	Dose	(h) (d)	Species	Source
Acute fish toxicity	LC50	230 mg/l	96 h	Leuciscus idus	
Acute algae foxicity	ErC50	31 mg/l	72 h	Desmodesmus subspicatus	IUCLID
Acute crustacea toxicity	EC50	86 mg/l	48 h	Daphnia magna	

### 12.2.) Persistence and degradability

Avoid contact with skin and eyes.

### 12.3.) Bioaccumulative potential

On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment is unlikely.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
124-04-9	adipic acid	0,081

### 12.4.) Mobility in soil

No data available

### 12.5.) Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB.

### 12.6.) Other adverse effects

No data available. Do not mix with other wastes.

Further information:

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).  
The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).

## 13.) DISPOSAL CONSIDERATIONS

### 13.1.) Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products:

**200127**  
MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); paint, inks, adhesives and resins containing dangerous substances Classified as hazardous waste.

Waste disposal number of used product:

**200127**  
MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); paint, inks, adhesives and resins containing dangerous substances Classified as hazardous waste.



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<p><b>Waste disposal number of contaminated packaging:</b></p> <p><b>Contaminated packaging:</b></p>	<p><b>200101</b> MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); paper and cardboard</p> <p>Water (with cleaning agent). Completely emptied packages can be recycled.</p>
<p><b>14.) <u>TRANSPORT INFORMATION</u></b></p> <p><b>14.1.) <u>Land transport (ADR/RID)</u></b></p> <p><b>UN proper shipping name:</b> <b>Other applicable information (land transport):</b></p> <p><b>14.2.) <u>Inland waterways transport (ADN)</u></b></p> <p><b>UN proper shipping name:</b> <b>Other applicable information (inland waterways transport):</b></p> <p><b>14.3.) <u>Marine transport (IMDG)</u></b></p> <p><b>UN proper shipping name:</b> <b>Other applicable information (marine transport)</b></p> <p><b>14.4.) <u>Air transport (ICAO)</u></b></p> <p><b>UN proper shipping name:</b> <b>Other applicable information (air transport):</b></p> <p><b>14.5.) Environmental hazards</b></p> <p><b>ENVIRONMENTALLY HAZARDOUS:</b></p> <p><b>14.6.) Special precautions for user</b></p> <p><b>14.7.) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b></p> <p><b>14.8.) Other applicable information</b></p>	<p>No dangerous good in sense of these transport regulations.</p> <p>No dangerous good in sense of these transport regulations.</p> <p>No dangerous good in sense of these transport regulations.</p> <p>No dangerous good in sense of these transport regulations.</p> <p>No dangerous good in sense of these transport regulations.</p> <p>No dangerous good in sense of these transport regulations.</p> <p>No dangerous good in sense of these transport regulations.</p> <p>No dangerous good in sense of these transport regulations.</p> <p>no</p> <p>Do not allow uncontrolled discharge of product into the environment.</p> <p>not applicable etc.:</p> <p>Discharge into the environment must be avoided.</p>
<p><b>15.) <u>REGULATORY INFORMATION</u></b></p> <p><b>15.1.) Safety, health and environmental regulations/legislation specific for the substance or mixture</b></p> <p><b><u>EU-regulatory information</u></b> 2004/42/EC (VOC):</p> <p><b>Additional information</b></p>	<p>0%</p> <p>The receiver of our product is singularly responsible for adhering to existing laws and regulations.</p>



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<p><b><u>National regulatory information</u></b> Employment restrictions:</p> <p>Water contaminating class (D):</p> <p><b>Additional information</b></p> <p><b>15.2.) Chemical safety assessment</b></p>	<p>Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing. Observe employment restrictions for women of child-bearing age.</p> <p>1 – slightly water contaminating</p> <p>The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.</p> <p>Chemical safety assessments for substances in this mixture were not carried out.</p>
<p><b>16.) <u>OTHER INFORMATION</u></b></p> <p><b>Relevant R-phrases (Number and full text):</b></p> <p><b>Relevant H- and EUH-phrases (Number and full text)::</b></p> <p><b>Revision date:</b></p> <p><b>Revisions-No:</b></p>	<p>R 36      Irritating to eyes.</p> <p>H319      Causes serious eye irritation.</p> <p>29.04.2013 / 01.04.2015 / 22.05.2015 / 20.10.2015 / 08.03.2016</p> <p>4.00</p>

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.