





<p>5.) <b><u>Fire fighting measures</u></b></p> <p>5.1) <b>Suitable extinguishing media:</b>  5.2) <b>Protection fire-fighting means:</b>  5.3) <b>Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:</b>  5.4) <b>Special protective equipment fore fire-fighters:</b>  5.5) <b>Additional information:</b>  5.6) <b>Fire class:</b></p>	<p>CO2, powder or alcohol resist foam  water</p> <p>carbon monoxide and carbon dioxide may result</p> <p>safety clothes and compressed air from tanks</p> <p>-  B</p>						
<p>6.) <b><u>Accidental release measures</u></b></p> <p>6.1) <b>Personal precautions:</b>  6.2) <b>Environmental precautions:</b>  6.3) <b>Methods for cleaning up:</b>  6.4) <b>Additional information:</b></p>	<p>do not smoke, fresh air supply, protective equipment, keep unprotected persons away  do not empty into drains  take up with suitable binding agent and dispose in accordance with law</p> <p>-</p>						
<p>7.) <b><u>Handling and storage</u></b></p> <p>7.1) <b>Advices on safe handling:</b>  7.2) <b>Precautions against fire and explosion:</b>  7.3) <b>Additional information:</b>  7.4) <b>Storage conditions:</b>  7.5) <b>Requirements for storage rooms:</b>  7.6) <b>Storage class VCI:</b>  7.7) <b>Specific uses:</b></p>	<p>use only in ventilated areas. Close container tightly after use. Avoid eye contact</p> <p>Keep away from ignition sources. Do not smoke. Measures against electrostatic loading are to be kept.  provide earth connection  store at a cool place  keep storage containers tightly closed</p> <p>-  see chapter no. 1</p>						
<p>8.) <b><u>Exposure controls/Personal protection</u></b></p> <p>8.1) <b>Components with occupational exposure limits:</b>  8.2) <b>Exposure controls:</b>  8.3) <b>Personal protection equipment:</b>  <b>Respiratory protection:</b>    <b>Hand protection:</b>      <b>Eye protection:</b>    <b>Protective clothing:</b>    <b>General health and safety measures:</b></p>	<table border="1" data-bbox="743 1381 1495 1438"> <thead> <tr> <th>Substance</th> <th>CAS-No.</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>2-Propanol</td> <td>67-63-0</td> <td>AGW 500 mg/m<sup>3</sup></td> </tr> </tbody> </table> <p>none</p> <p>provide for sufficient airing</p> <p>Protective liniment according to EN 374 Spray or-squirt-contact : Gloves from Polychloroprene, layer strength 0,65 mm, breakthrough time &gt; 120 min. of full contact: Nitrile, layer strength 0,4 mm, perforating time &gt; 480 min. To avoid skin problems wear gloves only when nessecary.. Examine protective gloves before every use. Preventive skin protection by use of skin liniment.</p> <p>safety glasses</p> <p>working clothes or protective apron</p> <p>minimum hygienic standard is to be observed. Wash hands before breaks and after work</p>	Substance	CAS-No.	Limits	2-Propanol	67-63-0	AGW 500 mg/m <sup>3</sup>
Substance	CAS-No.	Limits					
2-Propanol	67-63-0	AGW 500 mg/m <sup>3</sup>					



<p><b>9.) <u>Physical and chemical properties</u></b></p> <p><b>9.1) <u>Appearance:</u></b>  <b>Physical state:</b>  <b>Colour:</b>  <b>Odour:</b></p> <p><b>9.2) <u>Important health, safety and environmental information:</u></b></p> <p><b>Ph:</b>  <b>Flashpoint (°C):</b>  <b>Ignition at (°C):</b>  <b>Explosiveness:</b>  <b>Lower explosion range Vol%:</b>  <b>Upper explosion range Vol %:</b>  <b>Vapour pressure (20°C) mbar:</b>  <b>density (20°C) g/ml:</b>  <b>Solubility:</b>  <b>Water solubility (20°C) g/l:</b>  <b>Viscosity:</b>  <b>Rate of evaporation:</b>  <b>VOC (per unit) %:</b></p>	<p>liquid  clear/yellowish  alcoholic</p> <p>-  12  425  not explosive, but dangerous fume/air-mixtures may result  2  12  -  Ca.0,8  -  Completely  n.d.  n.d.  95</p>
<p><b>10.) <u>Stability and reactivity</u></b></p> <p><b>10.1) Conditions to avoid</b>  <b>10.2) Materials to avoid:</b>  <b>10.3) Hazardous decomposition products:</b></p>	<p>no decomposition by normal handling  with strong oxidizing agents  chapter 5</p>
<p><b>11.) <u>Toxicological information</u></b></p> <p><b>11.1) Toxicity tests:</b></p> <p><b>on the eyes:</b>  <b>on the skin:</b>  <b>on the respiratory tract:</b>  <b>sensitization:</b>  <b>mutagenity:</b>  <b>toxicity for reproduction:</b></p> <p><b>11.2) Experiences made in practice:</b>  <b>11.3) Other observations:</b>  <b>11.4) General remarks:</b></p>	<p>no hazards, other than stated in chapter 15, known irritant effect</p> <p>irritante  irritante  irritante  none  none on the basis of the EG directive  same as above</p> <p>degreasing effect on skin</p> <p>none</p> <p>inhalation of concentrated vapours and swallowing might lead to headache, drowsiness and unconsciousness</p>
<p><b>12.) <u>Ecological information</u></b></p> <p><b>12.1) Ecotoxicity:</b>  <b>12.2) Mobility:</b>  <b>12.3) Persistence and degradability:</b>  <b>12.4) Bio accumulative potential:</b>  <b>12.5) Other adverse effects:</b></p>	<p>not applicable  not applicable  not applicable  not applicable  not known</p>



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<p><b>13.) <u>Disposal considerations</u></b></p> <p><b>13.1) <u>Product:</u></b> proposed waste code in accordance with EWC (AVV)</p> <p><b>13.2) <u>Packaging:</u></b> proposed waste code in accordance with EWC (AVV)</p>	<p>Solvents and solvent-preparations 14 06 03</p> <p>plastic packing material /jerricans 15 01 02</p> <p>The codes stated here, are only recommendations. Local or regional regulations have to be observed.</p>
<p><b>14.) <u>Transport information</u></b></p> <p><b>14.1) <u>UN-Nr.</u></b></p> <p><b>14.2) <u>Land ADR/RID/GGVSE</u></b> Proper name: Danger release component Class: 3 Labels: 3 PG: II</p> <p><b>14.3) <u>Sea transport IMDG/GGVSee</u></b> Proper name: Danger release component: Class: 3 Labels: 3 PG: II Marine pollutant: no EmS: F-E/S-E</p> <p><b>14.4) <u>Air IATA/DGR</u></b> Proper name: Danger release component: Class:3 Labels:3 PG: II</p>	<p>1993</p> <p>Flammable liquid, n.o.s., (Propanol-2) LQ4</p> <p>Flammable liquid, n.o.s., (Propanol-2)</p> <p>Flammable liquid, n.o.s., (Propanol-2)</p>
<p><b>15.) <u>Regulatory information / EU-Regulations</u></b></p> <p><b>15.1) Hazard symbols and hazard statements:</b></p> <p><b>R-phrases:</b></p> <p><b>S-phrases:</b></p> <p><b>15.2) Disturbance Decree (StörfallIV, Anh.I):</b></p> <p><b>15.3) Technical Decree (TA-AIR):</b></p> <p><b>15.4) Water hazard class acc. to VwVwS:</b></p>	<p>R 11 highly flammable R 36 irritating to eyes R 41 risk of serious damage to eyes R 67 vapours may cause drowsiness and dizziness</p> <p>S 16 keep away from sources of ignition - No smoking S 7 keep container tightly closed S 24/25 avoid contact with skin and eyes S 26 in case of contact with eyes, rinse immediately with plenty of water and seek medical advice S 37/39 wear suitable gloves and eye/face protection</p> <p>not subject to Interference V (appendix 1)</p> <p>n.a (LQ )</p> <p>1</p>



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<b>16.) <u>Other information</u></b>	
<b>16.1) Relevant R-phrases (Number and full text):</b>	see chapter 3 and 15
<b>16.2) Recommended restrictions of use:</b>	For industrial purposes only
<b>16.3) Revised on:</b>	June 29, 2010
<b>16.4) Essential revisions – see chapter:</b>	complete