







<p>Hazard Statements:</p> <p><b>2.2.) Label elements</b></p> <p>Hazardous components which must be listed on the label:</p> <p>Signal word:</p> <p>Pictograms:</p>	<p>Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.</p> <p>Propan-2-ol; isopropyl alcohol; isopropanol.</p> <p>Danger</p> <p>GHS02-GHS07</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>
<p>Hazard statements:</p>	<p>H225                      Highly flammable liquid and vapour. H319                      Causes serious eye irritation. H336                      May cause drowsiness or dizziness.</p>
<p>Precautionary statements:</p>	<p>P202                      Do not handle until all safety precautions have been read and understood. P270                      Do not eat, drink or smoke when using this product. P210                      Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233                      Keep container tightly closed. P240                      Ground/bond container and receiving equipment. P241                      Use explosion-proof electrical/ventilating/lighting equipment.  P242                      Use only non-sparking tools. P243                      Take precautionary measures against static discharge. P261                      Avoid breathing dust/fume/gas/mist/vapours/spray. P271                      Use only outdoors or in a well-ventilated area. P280                      Wear protective gloves/protective clothing/eye protection/face protection.  P303+P361+P353      IF ON SKIN (or hair):                                  Take off immediately all contaminated clothing.                                  Rinse skin with water/shower. P304+P340              IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312                      Call a POISON CENTER/doctor if you feel unwell. P305+P351+P338      IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313              If eye irritation persists: Get medical advice/attention.</p>



12. Apr. 2019

<p>Precautionary statements:</p> <p><b>2.3.) Other hazards</b></p>	<p>P370+P378 P235 P403+P233 P405 P501</p> <p>In case of fire: Use in case of fire, use sand, extinguishing powder or alcohol resistant foam to extinguish. Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container to this material and its container must be disposed of as hazardous waste. Consult the local waste disposal expert about waste disposal. Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".</p> <p>No information available.</p>																								
<p><b>3.) COMPOSITION/INFORMATION ON INGREDIENTS</b></p> <p><b>3.1.) Mixtures</b></p> <p><b>Chemical characterization:</b></p> <p><b>Hazardous components</b></p> <table border="1" data-bbox="313 1098 1393 1381"> <thead> <tr> <th>Chemical name</th> <th>Productidentifier</th> <th>Quantity</th> <th>Classification according to Directive 67/548/EEC</th> </tr> </thead> <tbody> <tr> <td>2-propan-2-ol; isopropyl alcohol; isopropanol</td> <td>(CAS No.) 67-63-0 (EC No.) 200-661-7 (INDEX No.) 603-117-00-0 (REACH No.)</td> <td>80-100 %</td> <td>F-Highly flammable, Xi-Irritant R11-36-67</td> </tr> <tr> <td>itacon acid</td> <td>(CAS No.) 97-65-4 (EC No.) 202-599-6 (INDEX No.) (REACH No.)</td> <td>1-4 %</td> <td>Xi-Irritant R41</td> </tr> </tbody> </table> <table border="1" data-bbox="313 1440 1393 1745"> <thead> <tr> <th>Chemical name</th> <th>Productidentifier</th> <th>Quantity</th> <th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th> </tr> </thead> <tbody> <tr> <td>2-propan-2-ol; isopropyl alcohol; isopropanol</td> <td>(CAS No.) 67-63-0 (EC No.) 200-661-7 (INDEX No.) 603-117-00-0 (REACH No.)</td> <td>80-100 %</td> <td>Flam. Liq. 2; Eye Irrit. 2, STOT SE 3; H225 H319 H336</td> </tr> <tr> <td>itacon acid</td> <td>(CAS No.) 97-65-4 (EC No.) 202-599-6 (INDEX No.) (REACH No.)</td> <td>1-4 %</td> <td>Eye Dam. 1; H318</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	Productidentifier	Quantity	Classification according to Directive 67/548/EEC	2-propan-2-ol; isopropyl alcohol; isopropanol	(CAS No.) 67-63-0 (EC No.) 200-661-7 (INDEX No.) 603-117-00-0 (REACH No.)	80-100 %	F-Highly flammable, Xi-Irritant R11-36-67	itacon acid	(CAS No.) 97-65-4 (EC No.) 202-599-6 (INDEX No.) (REACH No.)	1-4 %	Xi-Irritant R41	Chemical name	Productidentifier	Quantity	Classification according to Regulation (EC) No. 1272/2008 [CLP]	2-propan-2-ol; isopropyl alcohol; isopropanol	(CAS No.) 67-63-0 (EC No.) 200-661-7 (INDEX No.) 603-117-00-0 (REACH No.)	80-100 %	Flam. Liq. 2; Eye Irrit. 2, STOT SE 3; H225 H319 H336	itacon acid	(CAS No.) 97-65-4 (EC No.) 202-599-6 (INDEX No.) (REACH No.)	1-4 %	Eye Dam. 1; H318	<p>Contains: Alcohol</p> <p>Contains: resin &gt;&gt; No risks worthy of mention.</p>
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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>After inhalation:</p> <p>After contact with skin:</p> <p>After contact with eyes:</p> <p>After ingestion:</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>Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).</p> <p>Wash with plenty of water. Take off contaminated clothing and wash it before reuse.</p> <p>After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.</p> <p>Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water. Do not induce vomiting. In case of persisting problems contact physician.</p> <p>No information available.</p> <p>Treat symptomatically.</p>
<p><b>5.) <u>FIREFIGHTING MEASURES</u></b></p> <p><b>5.1.) Extinguishing media</b></p> <p>Suitable extinguishing media:</p> <p>Unsuitable extinguishing media:</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>Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder.</p> <p>Water</p> <p>Flammable. Vapours can form explosive mixtures with air.</p> <p>In case of fire: Wear a self-contained breathing apparatus and chemical resistant suit. Full protective suit.</p> <p>Use water spray jet to protect personnel and to cool endangered containers. 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>Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapours/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.</p> <p>Do not allow uncontrolled discharge of product into the environment. Danger of explosion.</p>



12. Apr. 2019

<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>Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid-or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.</p> <p>Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13</p>																			
<p><b>7.) <u>HANDLING AND STORAGE</u></b></p> <p><b>7.1.) Precautions for safe handling</b></p> <p>Advice on safe handling:</p> <p>Advice on protection against fire and explosion:</p> <p><b>7.2.) Conditions for safe storage, including any incompatibilities</b></p> <p>Requirements for storage rooms and vessels:</p> <p>Advice on storage compatibility:</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. Close container tightly after use. Avoid eye contact</p> <p>Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.</p> <p>Keep container tightly closed. Keep in a cool well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. - No smoking.</p> <p>Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.</p> <p>Fluxes Industrial use of processing aids.</p>																			
<p><b>8.) <u>EXPOSURE CONTROLS/PERSONAL PROTECTION</u></b></p> <p><b>8.1.) Control parameters</b></p> <p>Exposure limits (EH40)</p> <table border="1" data-bbox="313 1610 1393 1713"> <thead> <tr> <th>CAS No.</th> <th>Substance</th> <th>ppm</th> <th>mg/m<sup>3</sup></th> <th>fibres/ml</th> <th>Category</th> <th>Origin</th> </tr> </thead> <tbody> <tr> <td rowspan="2">67-63-0</td> <td rowspan="2">Propan-2-ol</td> <td>400</td> <td>999</td> <td></td> <td>TWA (8 h)</td> <td>WEL</td> </tr> <tr> <td>500</td> <td>1250</td> <td></td> <td>STEL (15 min)</td> <td>WEL</td> </tr> </tbody> </table> <p><b>8.2.) Exposure controls</b></p>	CAS No.	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin	67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL	500	1250		STEL (15 min)	WEL	
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67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL														
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<p>Appropriate engineering controls:</p> <p>Protective and hygiene measures:</p> <p>Eye/face protection:</p> <p>Hand protection:</p> <p>Skin protection:</p> <p>Respiratory protection:</p> <p><b>Environmental exposure controls:</b></p>	<p>If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.</p> <p>Remove contaminate, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.</p> <p>Suitable eye protection: goggles.</p> <p>When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.</p> <p>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. Before using check leak tightness/impermeability.</p> <p><u>Additional protection measures for the hands:</u> Hand protection: DIN EN 374</p> <p><u>-CR (polychloroprenes. Chloroprene rubber)</u> Thickness of glove material: 0,65 mm penetration time (maximum wearing period): &gt; 120 min.</p> <p><u>-NBR (Nitrile rubber)</u> Thickness of glove material: 0,4 mm penetration time (maximum wearing period): &gt; 480 min.</p> <p>Flame-retardant protective clothing. Wear anti-static footwear and clothing.</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.) <b>Information on basic physical and chemical properties</b></p> <p><b>Physical state:</b></p> <p><b>Colour:</b></p> <p><b>Odour:</b></p>	<p>liquid</p> <p>amber</p> <p>Alcohol</p>



	<b>Test method</b>
<p><b>ph-Value:</b></p> <p><b><u>Changes in the physical state</u></b></p> <p>Melting point: Initial boiling point and boiling range: Flash point:</p> <p><b><u>Flammability</u></b></p> <p>Solid: Gas: Lower explosion limits: Upper explosion limits:</p> <p><b><u>Auto-ignition temperature</u></b></p> <p>Solid: Gas: Decomposition temperature</p> <p><b><u>Oxidizing properties</u></b></p> <p>Vapour pressure (at 20 °C): Vapour pressure (at 50 °C): Density: Water solubility:</p> <p><b><u>Solubility in other solvents</u></b></p> <p>Partition coefficient: Vapour density: Evaporation rate: Solvent content:</p> <p><b>9.2.) Other information</b></p> <p>Solid content:</p>	<p>Not applicable etc.</p> <p>Not determined ca. 80 °C 12 °C</p> <p>not applicable not applicable 2 vol.-% 12 vol.-%</p> <p>not applicable not applicable not determined</p> <p>Not oxidizing.</p> <p>48 hPa 236 hPa ca. 0,8 g/cm<sup>3</sup> slightly soluble</p> <p>not determined</p> <p>not determined not determined not determined ca. 95%</p> <p>not determined</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>Flammable. Ignition hazard. No risks worthy of mention.</p> <p>Stability and reactivity: Yes.</p> <p>Violent reaction with: Oxidizing agents, strong.</p> <p>Keep away from sources of heat (e.g. hot surface), sparks and open flames. Vapours can form explosive mixtures with air. Keep away from heat.</p> <p>Alkali metals.</p>





12. Apr. 2019

<p><b>10.6.) Hazardous decomposition products</b></p> <p><b>Further information:</b></p>	<p>Thermal decomposition can lead to the escape of irritating gases and vapours.</p> <p>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>Acute toxicity</b></p> <p><b><u>Itaconic acid</u></b></p> <table border="1" data-bbox="315 810 1395 926"> <thead> <tr> <th>CAS No.</th> <th>Exposure routes</th> <th>Chemical name</th> <th>Method</th> <th>Dose</th> <th>Species</th> <th>Source</th> </tr> </thead> <tbody> <tr> <td>97-65-4</td> <td>oral</td> <td>Itaconic acid</td> <td>LD50</td> <td>&gt;2000 mg/kg</td> <td>Rat</td> <td></td> </tr> </tbody> </table> <p><b>Additional information on tests:</b></p>	CAS No.	Exposure routes	Chemical name	Method	Dose	Species	Source	97-65-4	oral	Itaconic acid	LD50	>2000 mg/kg	Rat		<p>This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].</p>
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<p><b>12.) <u>ECOLOGICAL INFORMATION</u></b></p> <p><b>12.1) Toxicity</b></p> <p><b>12.2) Persistence and degradability</b></p> <p><b>12.3) Bioaccumulative potential</b></p> <p><b>12.4) Mobility in soil</b></p> <p><b>12.5) Results of PBT- and vPvB-assessment</b></p> <p><b>12.6) Other adverse effects</b></p> <p><b>Further information:</b></p>	<p>The product is not: Ecotoxic.</p> <p>The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).</p> <p>On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment is unlikely.</p> <p>No data available.</p> <p>This substance does not meet the criteria for classification as PBT or vPvB.</p> <p>No data available.</p> <p>Avoid release to the environment. The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).</p>														
<p><b>13.) <u>DISPOSAL CONSIDERATIONS</u></b></p> <p><b>13.1.) Waste treatment methods</b></p> <p><b>Advice on disposal:</b></p>	<p>Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.</p>														







12. Apr. 2019

<p><b>Waste disposal number of used product and of waste from residues/unused products:</b></p> <p><b>Waste disposal number of contaminated packaging:</b></p> <p><b>Contaminated packaging:</b></p>	<p><b>140603</b> WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (except 07 and 08): waste organic solvents, refrigerants and foam/aerosol/propellants; other solvents and solvent mixtures. Classified as hazardous waste.</p> <p><b>150102</b> WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging</p> <p>Wash with plenty of water. Completely emptied packages can be recycled.</p>
<p><b>14.) <u>TRANSPORT INFORMATION</u></b></p> <p><b>14.1.) Land transport (ADR/RID):</b></p> <p><b>UN number:</b></p> <p><b>UN proper shipping name:</b></p> <p><b>Transport hazard class(es):</b> <b>Packaging group:</b> Hazard label:</p> <p>Classification code: Special provisions: Limited quantity: Excepted quantity: Transport category: Hazard No: Tunnel restriction code:</p> <p><b>14.2.) Inland waterways transport (ADN)</b></p> <p><b>UN number:</b></p> <p><b>UN proper shipping name:</b></p> <p><b>Transport hazard class(es):</b> <b>Packaging group:</b> Hazard label:</p>	<p>UN1993</p> <p>FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol, isopropanol)</p> <p>3 II 3</p>  <p>F1 274 601 640C 1 L E2 2 33 D/E</p> <p>UN1993</p> <p>FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol, isopropanol)</p> <p>3 II 3</p> 



<p>Classification code: Special provisions: Limited quantity: Excepted quantity:</p>	<p>F1 274 601 640C 1 L E2</p>
<p><b>14.3.) Marine transport (IMDG)</b></p> <p><b>UN number:</b></p> <p><b>UN proper shipping name:</b></p> <p><b>Transport hazard class(es):</b> <b>Packing group:</b> Hazard label:</p> <p>Special provisions: Limited quantity: Excepted quantity: EmS: Segregation group:</p>	<p>UN1993</p> <p>FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol)</p> <p>3 II 3</p>  <p>274 1 L E2 F-E, S-E IMDG-Code segregation group not applicable</p>
<p><b>14.4.) Air transport (ICAO)</b></p> <p><b>UN number:</b></p> <p><b>UN proper shipping name:</b></p> <p><b>Transport hazard class(es):</b></p> <p><b>Packing group:</b> Hazard label:</p> <p>Special provisions: Limited quantity Passenger: Passenger LQ: Excepted quantity: IATA-packing instructions - Passenger: IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:</p>	<p>UN1993</p> <p>FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol)</p> <p>3</p> <p>II 3</p>  <p>A3 1 L Y341 E2</p> <p>353 5 L 364 60 L</p>
<p><b>14.5.) Environmental hazards</b></p> <p><b>Environmentally hazardous:</b></p>	<p>no</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>Other applicable information:</p>	<p>Warning: Combustible liquid. 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.) REGULATORY INFORMATION</b></p> <p><b>15.1.) Safety, health and environmental regulations/legislation specific for the substance or mixture</b></p> <p><u>EU regulatory information</u></p> <p><b>2010/75/EU (VOC):</b></p> <p><b>2004/42/EC (VOC):</b></p> <p><u>Additional information</u> To follow:</p> <p><u>National regulatory information</u></p> <p>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>94,5 %</p> <p>94,5 %</p> <p>850/2004/EC, 79/117/EEC, 689/2008/EC</p> <p>Observe employment restrictions for young people.</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 assessment for substances in this mixture were not carried out.</p>
<p><b>16.) OTHER INFORMATION</b></p> <p><b>Abbreviations and acronyms:</b></p>	<p><b>ADR:</b> Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).</p> <p><b>IMDG:</b> International Maritime Code for Dangerous Goods</p> <p><b>IATA:</b> International Air Transport Association</p> <p><b>GHS:</b> Globally Harmonized System of Classification and Labelling of Chemicals</p> <p><b>EINECS:</b> European Inventory of Existing Commercial Chemical Substances</p> <p><b>ELINCS:</b> European List of Notified Chemical Substances</p> <p><b>CAS:</b> Chemical Abstracts Service</p> <p><b>LC50:</b> Lethal concentration, 50%</p> <p><b>LD50:</b> Lethal dose, 50%</p>



12. Apr. 2019

<b>Relevant R-phrases (Number and full text):</b>	<b>11</b> Highly flammable. <b>36</b> Irritating to eyes. <b>41</b> Risk of serious damage to eyes. <b>67</b> Vapours may cause drowsiness and dizziness.
<b>Relevant H- and EUH-phrases (Number and full test):</b>	<b>H225</b> Highly flammable liquid and vapour. <b>H318</b> Causes serious eye damage. <b>H319</b> Causes serious eye irritation. <b>H336</b> May cause drowsiness or dizziness.
<b>Revisions date:</b>	03.07.2013 / 13.10.2015 / 07.06.2017
<b>Revisions No:</b>	4.03

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.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor`s safety data sheet).