

## SAFETY DATA SHEET

## PART A of the two component product, ARBOFLEX 2C TOP COAT PART A / PART B

| SECTION 1: Identification of the                  | ne substance/mixture and of the company/undertaking   |
|---|---|
| 1.1. Product identifier                           |   |
| Product name                                      | PART A of the two component product, ARBOFLEX 2C TOP COAT PART A / PART B   |
| 1.2. Relevant identified uses o                   | f the substance or mixture and uses advised against   |
| Identified uses                                   | Two-component, aliphatic polyurethane solvent based resin surface coating for industrial & commercial flooring and protection against UV rays   |
| Uses advised against                              | Restricted to professional users.   |
| 1.3. Details of the supplier of t                 | he safety data sheet  |
| Supplier  | Carlisle Construction Materials Ltd.<br>Lancaster House, Concorde Way,<br>Millennium Business Park,<br>Mansfield, Nottinghamshire,<br>NG19 7DW<br>United Kingdom<br>01623 627285<br>sds.arbo@ccm-europe.com |
| 1.4. Emergency telephone nur                      | nber  |
| National emergency telephone<br>number            | 9 01623 627285 (office hours only).   |
| SECTION 2: Hazards identification                 | ation   |
| 2.1. Classification of the subst                  | ance or mixture   |
| Classification (EC 1272/2008)<br>Physical hazards | Flam. Lig. 3 - H226   |
| Health hazards                                    | Skin Sens. 1 - H317 STOT SE 3 - H335, H336  |
| Environmental hazards                             | Aquatic Chronic 2 - H411  |
| 2.2. Label elements                               |   |
| Hazard pictograms                                 |   |



Signal word

Hazard statements



Warning H226 Flammable liquid and vapour. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.

| Precautionary statements | <ul> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P261 Avoid breathing vapour/ spray.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P312 Call a POISON CENTRE/doctor if you feel unwell.</li> <li>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</li> <li>P403+P235 Store in a well-ventilated place. Keep cool.</li> </ul> |
|--------------------------|---|
| Contains                 | Hydrocarbons, C9, aromatics, 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-<br>propenoate, ethenylbenzene, 1,2-propanediol mono(2-methyl-2-propenoate) and 2-propenoic<br>acid, Xylene, Fatty acids, C14-18 and C16-18-unsatd., maleated  |

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

| SECTION 3: Composition/informat  | on on ingredients                                    |  |
|--|--|--|
| 3.2. Mixtures  |  |  |
| Hydrocarbons, C9, aromatics  |  | 25 - < 50%   |
| CAS number: 64742-95-6   | REACH registration number: 01-<br>2119455851-35-XXXX |  |
| <b>Classification</b><br>Flam. Liq. 3 - H226<br>STOT SE 3 - H335, H336<br>Asp. Tox. 1 - H304<br>Aquatic Chronic 2 - H411 |  |  |
| 2-Propenoic acid, 2-methyl-, meth<br>2-propenoate, ethenylbenzene, 1,<br>methyl-2-propenoate) and 2-prope                | 2-propanediol mono(2-                                | 25 - < 50%   |
| CAS number: 37237-99-3   |  |  |
| <b>Classification</b><br>Skin Sens. 1 - H317   |  |  |
| Xylene   |  | < 5%   |
| CAS number: 1330-20-7  | EC number: 215-535-7                                 | REACH registration number: 01-<br>2119488216-32-XXXX |
| Classification   |  |  |
| Flam. Liq. 3 - H226  |  |  |
| Acute Tox. 4 - H312  |  |  |
| Acute Tox. 4 - H332  |  |  |
| Skin Irrit. 2 - H315   |  |  |
| Eye Irrit. 2 - H319<br>STOT SE 3 - H335  |  |  |
| STOT RE 2 - H373   |  |  |
| Asp. Tox. 1 - H304   |  |  |
| Aquatic Chronic 3 - H412   |  |  |

| 2-Methoxy-1-methylethyl acetate                                  |                                 | < 1%   |
|--|---------------------------------|--|
| CAS number: 108-65-6   | EC number: 203-603-9            | REACH registration number: 01-<br>2119475791-29-XXXX |
| <b>Classification</b><br>Flam. Liq. 3 - H226<br>STOT SE 3 - H336 |                                 |  |
| Fatty acids, C14-18 and C16-18-                                  | unsatd., maleated               | < 1%   |
| CAS number: 85711-46-2   | EC number: 288-306-2            | REACH registration number: 01-<br>2119976378-19-0000 |
| Classification   |                                 |  |
| Skin Irrit. 2 - H315   |                                 |  |
| Eye Irrit. 2 - H319  |                                 |  |
| Skin Sens. 1B - H317   |                                 |  |
| Ethylbenzene   |                                 | < 0.1%   |
| CAS number: 100-41-4   | EC number: 202-849-4            |  |
| Classification   |                                 |  |
| Flam. Liq. 2 - H225  |                                 |  |
| Acute Tox. 4 - H332  |                                 |  |
| STOT RE 2 - H373   |                                 |  |
| Asp. Tox. 1 - H304   |                                 |  |
| The full text for all hazard stateme                             | nts is displayed in Section 16. |  |
| SECTION 4: First aid measures                                    |                                 |  |
| 4.4. Description of first old manage                             |                                 |  |

### 4.1. Description of first aid measures

| General information        | Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.   |
|----------------------------|--|
| Inhalation                 | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention. Place unconscious person on their side in the recovery position and ensure breathing can take place.             |
| Ingestion                  | Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if<br>the affected person feels sick as vomiting may be dangerous. Never give anything by mouth<br>to an unconscious person. Place unconscious person on their side in the recovery position<br>and ensure breathing can take place. Keep affected person under observation. Get medical<br>attention if symptoms are severe or persist. |
| Skin contact               | It is important to remove the substance from the skin immediately. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. In the event of any sensitisation symptoms developing, ensure further exposure is avoided. Get medical attention if symptoms are severe or persist after washing.   |
| Eye contact                | Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.  |
| Protection of first aiders | First aid personnel should wear appropriate protective equipment during any rescue.  |

### 4.2. Most important symptoms and effects, both acute and delayed

| General information                              | The severity of the symptoms described will vary dependent on the concentration and the length of exposure.   |
|--|---|
| Inhalation                                       | A single exposure may cause the following adverse effects: Irritation of nose, throat and airway. Difficulty in breathing. Coughing. Vapours may cause headache, fatigue, dizziness and nausea. Central nervous system depression.  |
| Ingestion  | May cause sensitisation or allergic reactions in sensitive individuals.   |
| Skin contact                                     | May cause skin sensitisation or allergic reactions in sensitive individuals.  |
| Eye contact                                      | No specific symptoms known. May be slightly irritating to eyes.   |
| 4.3. Indication of any immediat                  | te medical attention and special treatment needed   |
| Notes for the doctor                             | Treat symptomatically. May cause sensitisation or allergic reactions in sensitive individuals.  |
| SECTION 5: Firefighting meas                     | ures  |
| 5.1. Extinguishing media                         |   |
| Suitable extinguishing media                     | The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.  |
| Unsuitable extinguishing media                   | Do not use water jet as an extinguisher, as this will spread the fire.  |
| 5.2. Special hazards arising fro                 | om the substance or mixture   |
| Specific hazards                                 | Containers can burst violently or explode when heated, due to excessive pressure build-up.<br>Flammable liquid and vapour. Vapours may be ignited by a spark, a hot surface or an ember.<br>Vapours may form explosive mixtures with air. Fire-water run-off in sewers may create fire or<br>explosion hazard.  |
| Hazardous combustion<br>products                 | Thermal decomposition or combustion products may include the following substances:<br>Harmful gases or vapours.   |
| 5.3. Advice for firefighters                     |   |
| Protective actions during firefighting           | Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities. |
| Special protective equipment<br>for firefighters | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.  |
| SECTION 6: Accidental releas                     | e measures  |

### 6.1. Personal precautions, protective equipment and emergency procedures

| Personal precautions | Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be |
|----------------------|--|
|                      | taken without appropriate training or involving any personal risk. Do not touch or walk into     |
|                      | spilled material. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or     |
|                      | other sources of ignition near spillage. Promptly remove any clothing that becomes               |
|                      | contaminated. Avoid inhalation of vapours and spray/mists. Use suitable respiratory protection   |
|                      | if ventilation is inadequate. Avoid contact with skin and eyes.                                  |

#### 6.2. Environmental precautions

**Environmental precautions** 

Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Do not allow material to enter confined spaces, due to the risk of explosion. Absorb spillage with sand or other inert absorbent. The contaminated absorbent may pose the same hazard as the spilled material. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13.

#### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

| Usage precautions                         | Read and follow manufacturer's recommendations. Wear protective clothing as described in<br>Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs.<br>Handle all packages and containers carefully to minimise spills. Keep container tightly sealed<br>when not in use. Avoid the formation of mists. The product is flammable. Keep away from<br>heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond<br>container and receiving equipment. Use explosion-proof electrical, ventilating and lighting<br>equipment. Take precautionary measures against static discharge. Use only non-sparking<br>tools. Do not handle until all safety precautions have been read and understood. Do not<br>handle broken packages without protective equipment. Do not reuse empty containers. |
|---|---|
| Advice on general<br>occupational hygiene | Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.  |
| 7.2. Conditions for safe storag           | e, including any incompatibilities  |
| Storage precautions                       | Store at below 20 °C. Avoid exposure to high temperatures or direct sunlight. Store away from incompatible materials (see Section 10). Keep away from oxidising materials, heat and flames. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.  |
| Storage class                             | Flammable liquid storage.   |
| 7.3. Specific end use(s)                  |   |
| Specific end use(s)                       | The identified uses for this product are detailed in Section 1.2.   |
| SECTION 8: Exposure control               | s/Personal protection   |
| 0.4. Control nonomotors                   |   |

#### 8.1. Control parameters

#### Occupational exposure limits

### Xylene

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m<sup>3</sup> Sk, BMGV

### 2-Methoxy-1-methylethyl acetate

Long-term exposure limit (8-hour TWA): WEL 50 ppm 274 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 100 ppm 548 mg/m<sup>3</sup> Sk

### Ethylbenzene

Long-term exposure limit (8-hour TWA): WEL 100 ppm 441 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 125 ppm 552 mg/m<sup>3</sup> Sk

WEL = Workplace Exposure Limit. Sk = Can be absorbed through the skin. BMGV = Biological monitoring guidance value.

#### Hydrocarbons, C9, aromatics (CAS: 64742-95-6)

| DNEL                    | Workers - Inhalation; Long term systemic effects: 150 mg/m <sup>3</sup><br>Workers - Dermal; Long term systemic effects: 25 mg/kg/day  |
|-------------------------|--|
|                         | Xylene (CAS: 1330-20-7)  |
| Biological limit values | Xylene, o-, m-, p- or mixed isomers: 650 mmol methyl hippuric acid/mol creatinine in urine. Post shift.  |
| DNEL                    | Workers - Inhalation; Long term systemic effects: 221 mg/m³<br>Workers - Inhalation; Short term systemic effects: 442 mg/m³<br>Workers - Dermal; Long term systemic effects: 212 mg/kg/day   |
| PNEC                    | <ul> <li>Fresh water; 0.327 mg/l</li> <li>marine water; 0.327 mg/l</li> <li>Intermittent release; 0.327 mg/l</li> <li>STP; 6.58 mg/l</li> <li>Sediment (Freshwater); 12.46 mg/kg</li> <li>Sediment (Marinewater); 12.46 mg/kg</li> <li>Soil; 2.31 mg/kg</li> </ul> 2-Methoxy-1-methylethyl acetate (CAS: 108-65-6) |
| DNEL                    | Workers - Inhalation; Long term systemic effects: 275 mg/m³<br>Workers - Inhalation; Short term local effects: 550 mg/m³<br>Workers - Dermal; Long term systemic effects: 796 mg/kg/day  |
| PNEC                    | Fresh water; 0.635 mg/l<br>Intermittent release; 6.35 mg/l<br>marine water; 0.064 mg/l<br>STP; 100 mg/l<br>Sediment (Freshwater); 3.29 mg/kg<br>Sediment (Marinewater); 0.329 mg/kg<br>Soil; 0.29 mg/kg<br>Soil; 0.29 mg/kg  |
| DNEL                    | Workers - Inhalation; Long term systemic effects: 1286.4 mg/m <sup>3</sup><br>Workers - Inhalation; Long term local effects: 837.5 mg/m <sup>3</sup>   |
| Fatty                   | v acids, C14-18 and C16-18-unsatd., maleated (CAS: 85711-46-2)   |
| DNEL                    | Workers - Dermal; Long term systemic effects: 3.33 mg/kg/day   |

| PNEC                               | STP; 100 mg/l  |
|------------------------------------|--|
| 8.2. Exposure controls             |  |
| Protective equipment               |  |
|                                    |  |
| Appropriate engineering controls   | This product must not be handled in a confined space without adequate ventilation. Use only outdoors or in a well-ventilated area. Observe any occupational exposure limits for the product or ingredients.  |
| Eye/face protection                | Wear approved safety goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.  |
| Hand protection                    | To protect hands from chemicals, gloves should comply with European Standard EN374.<br>Recommendations for gloves:<br>Polychloroprene - CR: thickness >=0.5 mm; breakthrough time >= 480 min.<br>Nitrile rubber - NBR: thickness >= 0.35 mm; breakthrough time >= 480 min.<br>Butyl rubber - IIR: thickness >= 0.5 mm; breakthrough time >= 480 min.<br>Fluorinated rubber - FKM: thickness >= 0.4 mm; breakthrough time >= 480 min. |
| Other skin and body protection     | May cause skin sensitisation or allergic reactions in sensitive individuals. Wear appropriate clothing to prevent repeated or prolonged skin contact.  |
| Hygiene measures                   | Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.  |
| Respiratory protection             | Use respiratory protection where ventilation is insufficient or exposure is prolonged.<br>Respiratory protection must be used if the airborne contamination exceeds the recommended<br>occupational exposure limit. Recommended Filter type: Organic gases and vapours filter Type<br>A Brown conforming to EN14387.   |
| Environmental exposure<br>controls | Keep container tightly sealed when not in use. Emissions from ventilation or work process<br>equipment should be checked to ensure they comply with the requirements of environmental<br>protection legislation.   |

### SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| Appearance                                   | Viscous liquid.      |
|--|----------------------|
| Colour                                       | Various colours.     |
| Odour  | Characteristic.      |
| Odour threshold                              | No data available.   |
| рН   | No data available.   |
| Melting point                                | No data available.   |
| Initial boiling point and range              | No data available.   |
| Flash point                                  | 45°C / 113°F Method: |
| Evaporation rate                             | No data available.   |
| Flammability (solid, gas)                    | Not applicable.      |
| Upper/lower flammability or explosive limits | No data available.   |

| Vapour pressure   | No data available.  |
|---|---|
| Vapour density  | No data available.  |
| Relative density  | 1.25  |
| Solubility(ies)   | Insoluble in water.   |
| Partition coefficient   | No data available.  |
| Auto-ignition temperature   | No data available.  |
| Decomposition Temperature   | No data available.  |
| Viscosity   | 4000 cP @ °C  |
| Explosive properties  | No data available.  |
| Oxidising properties  | No data available.  |
| 9.2. Other information  |   |
| Other information   | Not available.  |
| SECTION 10: Stability and rea   | activity  |
| 10.1. Reactivity  |   |
| Reactivity  | This material react with certain agents under certain conditions - see Section 10.5.  |
| 10.2. Chemical stability  |   |
| Stability   | Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.   |
| 10.3. Possibility of hazardous  | reactions   |
| Possibility of hazardous reactions  | The following materials may react strongly with the product: Oxidising agents.  |
|   |   |
| 10.4. Conditions to avoid   |   |
| 10.4. Conditions to avoid<br>Conditions to avoid  | Avoid heat, flames and other sources of ignition. Containers can burst violently or explode when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented.  |
|   | when heated, due to excessive pressure build-up. Static electricity and formation of sparks   |
| Conditions to avoid   | when heated, due to excessive pressure build-up. Static electricity and formation of sparks   |
| Conditions to avoid 10.5. Incompatible materials  | when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented.<br>Oxidising materials. Acids - oxidising.   |
| Conditions to avoid<br>10.5. Incompatible materials<br>Materials to avoid   | when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented.<br>Oxidising materials. Acids - oxidising.   |
| Conditions to avoid<br>10.5. Incompatible materials<br>Materials to avoid<br>10.6. Hazardous decomposition<br>Hazardous decomposition   | <ul> <li>when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented.</li> <li>Oxidising materials. Acids - oxidising.</li> <li>on products</li> <li>Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.</li> </ul>                                |
| Conditions to avoid<br><u>10.5. Incompatible materials</u><br>Materials to avoid<br><u>10.6. Hazardous decomposition</u><br>Hazardous decomposition<br>products   | <ul> <li>when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented.</li> <li>Oxidising materials. Acids - oxidising.</li> <li>on products</li> <li>Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.</li> </ul>                                |
| Conditions to avoid<br><u>10.5. Incompatible materials</u><br>Materials to avoid<br><u>10.6. Hazardous decomposition</u><br>Hazardous decomposition<br>products<br><u>SECTION 11: Toxicological in</u>  | <ul> <li>when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented.</li> <li>Oxidising materials. Acids - oxidising.</li> <li>on products</li> <li>Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.</li> </ul>                                |
| Conditions to avoid<br><u>10.5. Incompatible materials</u><br>Materials to avoid<br><u>10.6. Hazardous decomposition</u><br>Hazardous decomposition<br>products<br><u>SECTION 11: Toxicological in</u><br><u>11.1. Information on toxicologi</u>              | when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented. Oxidising materials. Acids - oxidising. On products Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. formation ical effects  |
| Conditions to avoid<br>10.5. Incompatible materials<br>Materials to avoid<br>10.6. Hazardous decomposition<br>products<br>SECTION 11: Toxicological in<br>11.1. Information on toxicologi<br>Toxicological effects<br>Acute toxicity - oral                   | when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented.   Oxidising materials. Acids - oxidising.   on products   Thermal decomposition or combustion products may include the following substances:   Harmful gases or vapours.   formation ical effects There are no data available on this product. |
| Conditions to avoid<br>10.5. Incompatible materials<br>Materials to avoid<br>10.6. Hazardous decomposition<br>products<br>SECTION 11: Toxicological in<br>11.1. Information on toxicologi<br>Toxicological effects<br><u>Acute toxicity - oral</u><br>Summary | when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented.   Oxidising materials. Acids - oxidising.   on products   Thermal decomposition or combustion products may include the following substances:   Harmful gases or vapours.   formation ical effects There are no data available on this product. |

| Acute toxicity - inhalation  |   |
|--|---|
| Summary  | Based on available data the classification criteria are not met.  |
| ATE inhalation (vapours mg/l)  | 292.55  |
| Skin corrosion/irritation<br>Skin corrosion/irritation   | Based on available data the classification criteria are not met.  |
| Serious eye damage/irritation<br>Serious eye damage/irritation   | Based on available data the classification criteria are not met.  |
| Respiratory sensitisation<br>Respiratory sensitisation   | Based on available data the classification criteria are not met.  |
| Skin sensitisation<br>Skin sensitisation   | Skin Sens. 1 May cause an allergic skin reaction.   |
| Germ cell mutagenicity<br>Genotoxicity - in vitro  | Based on available data the classification criteria are not met.  |
| Carcinogenicity<br>Carcinogenicity   | Based on available data the classification criteria are not met.  |
| Reproductive toxicity<br>Reproductive toxicity - fertility   | Based on available data the classification criteria are not met.  |
| Reproductive toxicity -<br>development   | Based on available data the classification criteria are not met.  |
| Specific target organ toxicity -   | single exposure   |
|  |   |
| STOT - single exposure   | STOT SE 3 - H335, H336 May cause respiratory irritation. May cause drowsiness or<br>dizziness.  |
| STOT - single exposure<br>Target organs  |   |
|  | dizziness.<br>Respiratory system, lungs Central nervous system  |
| Target organs  | dizziness.<br>Respiratory system, lungs Central nervous system  |
| Target organs<br>Specific target organ toxicity -  | dizziness.<br>Respiratory system, lungs Central nervous system<br>repeated exposure   |
| Target organs<br>Specific target organ toxicity -<br>STOT - repeated exposure<br>Aspiration hazard   | dizziness.<br>Respiratory system, lungs Central nervous system<br>repeated exposure<br>Based on available data the classification criteria are not met.   |
| Target organs<br>Specific target organ toxicity -<br>STOT - repeated exposure<br>Aspiration hazard<br>Aspiration hazard  | dizziness.<br>Respiratory system, lungs Central nervous system<br>repeated exposure<br>Based on available data the classification criteria are not met.<br>Based on available data the classification criteria are not met.<br>The severity of the symptoms described will vary dependent on the concentration and the  |
| Target organs<br>Specific target organ toxicity -<br>STOT - repeated exposure<br>Aspiration hazard<br>Aspiration hazard<br>General information   | dizziness.<br>Respiratory system, lungs Central nervous system<br>repeated exposure<br>Based on available data the classification criteria are not met.<br>Based on available data the classification criteria are not met.<br>The severity of the symptoms described will vary dependent on the concentration and the<br>length of exposure.<br>A single exposure may cause the following adverse effects: Irritation of nose, throat and<br>airway. Difficulty in breathing. Coughing. Vapours may cause headache, fatigue, dizziness   |
| Target organs<br><u>Specific target organ toxicity -</u><br>STOT - repeated exposure<br><u>Aspiration hazard</u><br>Aspiration hazard<br>General information<br>Inhalation   | dizziness.<br>Respiratory system, lungs Central nervous system<br>repeated exposure<br>Based on available data the classification criteria are not met.<br>Based on available data the classification criteria are not met.<br>The severity of the symptoms described will vary dependent on the concentration and the<br>length of exposure.<br>A single exposure may cause the following adverse effects: Irritation of nose, throat and<br>airway. Difficulty in breathing. Coughing. Vapours may cause headache, fatigue, dizziness<br>and nausea. Central nervous system depression.   |
| Target organs<br><u>Specific target organ toxicity -</u><br>STOT - repeated exposure<br><u>Aspiration hazard</u><br>Aspiration hazard<br>General information<br>Inhalation<br>Ingestion  | dizziness.<br>Respiratory system, lungs Central nervous system<br>repeated exposure<br>Based on available data the classification criteria are not met.<br>Based on available data the classification criteria are not met.<br>The severity of the symptoms described will vary dependent on the concentration and the<br>length of exposure.<br>A single exposure may cause the following adverse effects: Irritation of nose, throat and<br>airway. Difficulty in breathing. Coughing. Vapours may cause headache, fatigue, dizziness<br>and nausea. Central nervous system depression.<br>May cause sensitisation or allergic reactions in sensitive individuals.  |
| Target organs<br><u>Specific target organ toxicity -</u><br>STOT - repeated exposure<br><u>Aspiration hazard</u><br>Aspiration hazard<br>General information<br>Inhalation<br>Ingestion<br>Skin contact                              | dizziness.<br>Respiratory system, lungs Central nervous system<br>repeated exposure<br>Based on available data the classification criteria are not met.<br>Based on available data the classification criteria are not met.<br>The severity of the symptoms described will vary dependent on the concentration and the<br>length of exposure.<br>A single exposure may cause the following adverse effects: Irritation of nose, throat and<br>airway. Difficulty in breathing. Coughing. Vapours may cause headache, fatigue, dizziness<br>and nausea. Central nervous system depression.<br>May cause sensitisation or allergic reactions in sensitive individuals.<br>May cause skin sensitisation or allergic reactions in sensitive individuals.  |
| Target organs<br>Specific target organ toxicity -<br>STOT - repeated exposure<br>Aspiration hazard<br>Aspiration hazard<br>General information<br>Inhalation<br>Ingestion<br>Skin contact<br>Eye contact<br>Acute and chronic health | dizziness.<br>Respiratory system, lungs Central nervous system<br>repeated exposure<br>Based on available data the classification criteria are not met.<br>Based on available data the classification criteria are not met.<br>The severity of the symptoms described will vary dependent on the concentration and the<br>length of exposure.<br>A single exposure may cause the following adverse effects: Irritation of nose, throat and<br>airway. Difficulty in breathing. Coughing. Vapours may cause headache, fatigue, dizziness<br>and nausea. Central nervous system depression.<br>May cause sensitisation or allergic reactions in sensitive individuals.<br>May cause skin sensitisation or allergic reactions in sensitive individuals.<br>No specific symptoms known.<br>May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or |

### Medical considerations Skin disorders and allergies.

### Toxicological information on ingredients.

| Hydrocarbons, C9, aromatics           |  |  |
|---------------------------------------|--|--|
| Acute toxicity - oral                 |  |  |
| Acute toxicity oral (LD₅₀<br>mg/kg)   | 3,592.0  |  |
| Species                               | Rat  |  |
| ATE oral (mg/kg)                      | 3,592.0  |  |
| Acute toxicity - dermal               |  |  |
| Acute toxicity dermal (LD₅₀<br>mg/kg) | 3,160.0  |  |
| Species                               | Rabbit   |  |
| ATE dermal (mg/kg)                    | 3,160.0  |  |
| Skin corrosion/irritation             |  |  |
| Skin corrosion/irritation             | Conclusive data but not sufficient for classification.                   |  |
| Animal data                           | OECD 404 Acute dermal irritation / corrosion: Mildly irritating (rabbit) |  |
| Serious eye damage/irritati           | on   |  |
| Summary                               | Conclusive data but not sufficient for classification.                   |  |
| Serious eye<br>damage/irritation      | OECD 405 Acute Eye Irritation / Corrosion: Non-irritant (rabbit).        |  |
| Skin sensitisation                    |  |  |
| Summary                               | Conclusive data but not sufficient for classification.                   |  |
| Skin sensitisation                    | Not sensitising (OECD 406, Guinea Pig Maximisation Test)                 |  |
| Germ cell mutagenicity                |  |  |
| Summary                               | Conclusive data but not sufficient for classification.                   |  |
| Genotoxicity - in vitro               | Negative.  |  |
| Genotoxicity - in vivo                | Negative (OECD 475, Mammalian Bone Marrow Chromosome Aberration Test)    |  |
| Specific target organ toxicit         | y - single exposure  |  |
| Summary                               | May cause respiratory irritation. May cause drowsiness or dizziness.     |  |
| Aspiration hazard                     |  |  |
| Aspiration hazard                     | May be fatal if swallowed and enters airways.                            |  |
|                                       | 2-Methoxy-1-methylethyl acetate  |  |
| Acute toxicity - oral                 |  |  |
| Acute toxicity oral (LD₅₀<br>mg/kg)   | 6,190.0  |  |
| Species                               | Rat  |  |
| ATE oral (mg/kg)                      | 6,190.0  |  |

| Acute toxicity - dermal                            |  |
|--|--|
| Acute toxicity dermal (LD₅<br>mg/kg)               | 5,000.0  |
| Species  | Rabbit   |
| ATE dermal (mg/kg)                                 | 5,000.0  |
| Skin corrosion/irritation                          |  |
| Summary  | Conclusive data but not sufficient for classification.                           |
| Skin corrosion/irritation                          | OECD 404 Acute dermal irritation / corrosion: Not irritating (rabbit)            |
| Serious eye damage/irritation                      | on   |
| Summary  | Conclusive data but not sufficient for classification.                           |
| Serious eye<br>damage/irritation                   | OECD 405 Acute Eye Irritation / Corrosion: Non-irritant (rabbit).                |
| Skin sensitisation                                 |  |
| Summary  | Conclusive data but not sufficient for classification.                           |
| Skin sensitisation                                 | Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.               |
| Germ cell mutagenicity                             |  |
| Summary  | Conclusive data but not sufficient for classification.                           |
| Genotoxicity - in vitro                            | Bacterial reverse mutation test: Negative.                                       |
| Specific target organ toxicity - single exposure   |  |
| Summary  | May cause drowsiness or dizziness.   |
|  | Solvent naphtha (petroleum), light arom.   |
| Acute toxicity - oral                              |  |
| Acute toxicity oral (LD₅₀<br>mg/kg)                | 5,000.0  |
| Species  | Rat  |
| ATE oral (mg/kg)                                   | 5,000.0  |
| Acute toxicity - inhalation                        |  |
| Acute toxicity inhalation<br>(LC₅₀ dust/mist mg/l) | 5.61   |
| Species  | Rat  |
| ATE inhalation<br>(dusts/mists mg/l)               | 5.61   |
| Skin corrosion/irritation                          |  |
| Summary  | Causes skin irritation.  |
| Animal data  | Skin irritant (rabbit, OECD Guideline 404 (Acute Dermal Irritation / Corrosion)) |
| Serious eye damage/irritation                      | on   |
| Summary  | Conclusive data but not sufficient for classification.                           |

| Serious eye<br>damage/irritation | OECD 405 Acute Eye Irritation / Corrosion: Non-irritant (rabbit).                    |
|----------------------------------|--|
| Skin sensitisation               |  |
| Summary                          | Conclusive data but not sufficient for classification.                               |
| Skin sensitisation               | Not sensitising (OECD 406, Guinea Pig Buehler test)                                  |
| Germ cell mutagenicity           |  |
| Summary                          | Conclusive data but not sufficient for classification.                               |
| Genotoxicity - in vitro          | Bacterial reverse mutation test: Negative. Gene mutation: Negative.                  |
| Genotoxicity - in vivo           | Mammalian erythrocyte micronucleus test: Negative.                                   |
| Specific target organ toxici     | ty - single exposure   |
| STOT - single exposure           | May cause drowsiness or dizziness.   |
| Aspiration hazard                |  |
| Summary                          | May be fatal if swallowed and enters airways.  |
|                                  | Fatty acids, C14-18 and C16-18-unsatd., maleated                                     |
| Acute toxicity - oral            |  |
| Summary                          | Conclusive data but not sufficient for classification. LD50 Oral: > 2000 mg/kg Rat   |
| Acute toxicity - dermal          |  |
| Summary                          | Conclusive data but not sufficient for classification. LD50 Dermal: > 2000 mg/kg Rat |
| Acute toxicity - inhalation      |  |
| Summary                          | Data lacking.  |
| Skin corrosion/irritation        |  |
| Summary                          | Causes skin irritation.  |
| Skin corrosion/irritation        | Skin irritant (rabbit, OECD Guideline 404 (Acute Dermal Irritation / Corrosion))     |
| Serious eye damage/irritat       | ion  |
| Summary                          | Causes serious eye irritation.   |
| Serious eye<br>damage/irritation | OECD 405 Acute eye irritation / corrosion: Irritating (rabbit)                       |
| Respiratory sensitisation        |  |
| Summary                          | Data lacking.  |
| Skin sensitisation               |  |
| Summary                          | May cause an allergic skin reaction.   |
| Germ cell mutagenicity           |  |
| Summary                          | Conclusive data but not sufficient for classification.                               |
| Genotoxicity - in vitro          | Ames test: Negative.   |
| Genotoxicity - in vivo           | Mammalian erythrocyte micronucleus test: Negative.                                   |
| Carcinogenicity                  |  |
| Summary                          | Data lacking.  |

| Ethylbenzene           |   |   |
|------------------------|---|---|
|                        | Acute toxicity - inhalation                 |   |
|                        | ATE inhalation (vapours mg/l)               | 11.0  |
| SECTION 1              | 2: Ecological information                   |   |
| Ecotoxicity            | Toxic to                                    | aquatic life with long lasting effects.   |
| 12.1. Toxicit          | <u>v</u>                                    |   |
| Toxicity               | There are no data for the product.          |   |
| Acute aquat            |   |   |
| Summary                |   | n available data the classification criteria are not met.                               |
| Chronic aqu<br>Summary |   | Chronic 2 Toxic to aquatic life with long lasting effects.                              |
| Ecological ir          | nformation on ingredients.                  |   |
|                        |   | Hydrocarbons, C9, aromatics   |
|                        | Acute aquatic toxicity                      |   |
|                        | Acute toxicity - fish                       | LL₅₀, 96 hours: 9.2 mg/l, Oncorhynchus mykiss (Rainbow trout)                           |
|                        | Acute toxicity - aquatic<br>invertebrates   | EL50, 48 hours: 3.2 mg/l, Daphnia magna   |
|                        | Chronic aquatic toxicity                    |   |
|                        | Chronic toxicity - fish early<br>life stage | Estimated freshwater fish 28-day NOELR value is 1.228 mg/l based on growth.             |
|                        | Chronic toxicity - aquatic<br>invertebrates | Estimated freshwater invertebrate 21-day NOELR value is 2.14mg/l based on reproduction. |
|                        |   | 2-Methoxy-1-methylethyl acetate   |
|                        | Acute aquatic toxicity                      |   |
|                        | Acute toxicity - fish                       | LC₅₀, 96 hours: 134 mg/l, Oncorhynchus mykiss (Rainbow trout)                           |
|                        | Acute toxicity - aquatic invertebrates      | EC₅₀, 48 hours: >500 mg/l, Daphnia magna  |
|                        | Acute toxicity - aquatic plants             | ErC50, 96 hours: >1000 mg/l, Pseudokirchneriella subcapitata                            |
|                        | Chronic aquatic toxicity                    |   |
|                        | Chronic toxicity - fish early<br>life stage | NOEC, 14 days: 47.5 mg/l, Oryzias latipes (Red killifish)                               |
|                        | Chronic toxicity - aquatic<br>invertebrates | NOEC, 21 days: >=100 mg/l, Daphnia magna  |
|                        |   | Solvent naphtha (petroleum), light arom.  |
|                        | Acute aquatic toxicity                      | <u></u>   |
|                        | Acute toxicity - fish                       | LL₅₀, 96 hours: 10 mg/l, Oncorhynchus mykiss (Rainbow trout)                            |

| Acute toxicity - aq<br>invertebrates | uatic EL50, 48 hours: 4.5 mg/l, Daphnia magna  |
|--------------------------------------|--|
| Acute toxicity - aq<br>plants        | uatic EL50, 72 hours: 3.1 mg/l, Pseudokirchneriella subcapitata  |
| Chronic aquatic to                   | xicity   |
| Chronic toxicity - a invertebrates   | aquatic NOELR, 21 days: 2.6 mg/l, Daphnia magna  |
|                                      | Fatty acids, C14-18 and C16-18-unsatd., maleated   |
| Acute aquatic toxi                   | city   |
| Acute toxicity - fis                 | h LL₅₀, 96 hours: >=100 mg/l, Brachydanio rerio (Zebra Fish)   |
| Acute toxicity - aq<br>invertebrates | uatic EL50, 48 hours: >100 mg/l, Daphnia magna   |
| 12.2. Persistence and degrada        | bility   |
| Persistence and degradability        | The degradability of the product is not known.   |
| Ecological information on ingre      | dients.  |
|                                      | 2-Methoxy-1-methylethyl acetate  |
|                                      |  |
| Biodegradation                       | The substance is readily biodegradable.<br>- Degradation 83%: 28 days  |
|                                      | Fatty acids, C14-18 and C16-18-unsatd., maleated   |
| Biodegradation                       | Not readily biodegradable.   |
| 12.3. Bioaccumulative potentia       |  |
| Bioaccumulative potential            | No data available on bioaccumulation.  |
| Partition coefficient                | No data available.   |
| 12.4. Mobility in soil               |  |
| Mobility                             | No data available.   |
| 12.5. Results of PBT and vPvB        | assessment   |
| Results of PBT and vPvB assessment   | This product does not contain any substances classified as PBT or vPvB.  |
| 12.6. Other adverse effects          |  |
| Other adverse effects                | None known.  |
| SECTION 13: Disposal conside         | erations   |
| 13.1. Waste treatment methods        | 3  |
| General information                  | When handling waste, the safety precautions applying to handling of the product should be considered.  |
| Disposal methods                     | Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Do not reuse empty containers. Do not empty into drains. |
| Waste class                          | HP3 Flammable HP5 STOT / Aspiration toxicity HP13 Sensitising HP14 Ecotoxic Recommended EWC Code 08 01 11*   |

| SECTION 14: Transport information |  |  |
|-----------------------------------|--|--|
| 14.1. UN number                   |  |  |
| UN No. (ADR/RID)                  | 1139   |  |
| UN No. (IMDG)                     | 1139   |  |
| UN No. (ICAO)                     | 1139   |  |
| UN No. (ADN)                      | 1139   |  |
| 14.2. UN proper shipping name     | 9  |  |
| Proper shipping name<br>(ADR/RID) | COATING SOLUTION                               |  |
| Proper shipping name (IMDG)       | COATING SOLUTION (hydrocarbons, C9, aromatics) |  |
| Proper shipping name (ICAO)       | COATING SOLUTION                               |  |
| Proper shipping name (ADN)        | COATING SOLUTION                               |  |
| 14.3. Transport hazard class(es)  |  |  |
| ADR/RID class                     | 3  |  |
| ADR/RID classification code       | F1   |  |
| ADR/RID label                     | 3  |  |
| IMDG class                        | 3  |  |
| ICAO class/division               | 3  |  |
| ADN class                         | 3  |  |
| Transport labels                  |  |  |



| 14.4. Packing group   |   |
|-----------------------|---|
| ADR/RID packing group | Ш |
| IMDG packing group    | Ш |
| ICAO packing group    | Ш |
| ADN packing group     |   |
|                       |   |

### 14.5. Environmental hazards

### Environmentally hazardous substance/marine pollutant



| 14.6. | Special | precautions | for | user |
|-------|---------|-------------|-----|------|
|       |         |             |     |      |

| EmS                    | F-E, S-E |
|------------------------|----------|
| ADR transport category | 3        |
| Emergency Action Code  | •3Y      |

Hazard Identification Number 30 (ADR/RID)

Tunnel restriction code (D/E)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

#### SECTION 15: Regulatory information

| 15.1. Safety, health and enviro                         | onmental regulations/legislation specific for the substance or mixture  |
|---|---|
| National regulations                                    | The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment<br>Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].<br>Control of Substances Hazardous to Health Regulations 2002 (as amended).<br>EH40/2005 Workplace exposure limits.<br>Health and Safety at Work etc. Act 1974 (as amended).<br>The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)<br>(Amendment etc.) (EU Exit) Regulations 2019, UK SI 2019/720. The Chemicals (Health and<br>Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit)<br>Regulations 2020, UK SI 2020/1567.<br>The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, UK SI 2019/758, UK SI<br>2019/858 and UK SI 2019/1144. The REACH etc. (Amendment etc.) (EU Exit) Regulations<br>2020, UK SI 2020/1577. |
| EU legislation  | Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16<br>December 2008 on classification, labelling and packaging of substances and mixtures (as<br>amended).<br>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18<br>December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of<br>Chemicals (REACH) (as amended).  |
| Authorisations (Annex XIV<br>Regulation 1907/2006)      | None of the substances in the product are listed.   |
| Restrictions (Annex XVII<br>Regulation 1907/2006)       | No relevant restrictions.   |
| Seveso Directive - Control of<br>major accident hazards | P5c Lower-tier 5000 tonnes Upper-tier 50000 tonnes. E2 Lower-tier 200 tonnes Upper-tier 500 tonnes.   |
|   |   |

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

| Abbreviations and acronyms<br>used in the safety data sheet            | <ul> <li>ADR: European Agreement concerning the International Carriage of Dangerous Goods by<br/>Road.</li> <li>ADN: European Agreement concerning the International Carriage of Dangerous Goods by<br/>Inland Waterways.</li> <li>RID: European Agreement concerning the International Carriage of Dangerous Goods by<br/>Rail.</li> <li>IATA: International Air Transport Association.</li> <li>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</li> <li>IMDG: International Maritime Dangerous Goods.</li> <li>CAS: Chemical Abstracts Service.</li> <li>ATE: Acute Toxicity Estimate.</li> <li>LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.</li> <li>LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).</li> <li>EC<sub>50</sub>: 50% of maximal Effective Concentration.</li> <li>PBT: Persistent, Bioaccumulative and Toxic substance.</li> <li>vPvB: Very Persistent and Very Bioaccumulative.</li> </ul> |
|--|--|
| Classification abbreviations<br>and acronyms                           | Flam. Liq. = Flammable liquid<br>Skin Sens. = Skin sensitisation<br>STOT SE = Specific target organ toxicity-single exposure<br>Aquatic Chronic = Hazardous to the aquatic environment (chronic)   |
| Key literature references and<br>sources for data                      | Raw material suppliers SDS. Source: European Chemicals Agency, http://echa.europa.eu/  |
| Classification procedures<br>according to Regulation (EC)<br>1272/2008 | STOT SE 3 - H335, H336: Skin Sens. 1 - H317: : Calculation method. Aquatic Chronic 2 - H411: : Calculation method. Flam. Liq. 3 - H226: : On basis of test data.   |
| Training advice  | Only trained personnel should use this material.   |
| Revision date  | 19/11/2021   |
| Revision   | 1  |
| SDS number   | 20442  |
| SDS status   | Approved.  |
| Hazard statements in full  | <ul> <li>H226 Flammable liquid and vapour.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H312 Harmful in contact with skin.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>  |

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.