




|               |                         |                      |              |          |   |
|---------------|-------------------------|----------------------|--------------|----------|---|
| Trade name:   | <b>BIOMOUNT DPX LOW</b> |                      |              |          |   |
| Product code: | BML-X**                 | Date of compilation: | 17 June 2019 | Version: | 3 |

| <b>SECTION 1: Identification of the substance/mixture and of the company/undertaking</b>  |  |  |
|---|--|--|
| <b>1.1. Product identifier</b>  |  |  |
| Trade name:   | BIOMOUNT DPX LOW   |  |
| Chemical name:  | -  |  |
| Catalogue number:   | BML-X**  |  |
| <b>1.2. Relevant identified uses of the substance or mixture and uses advised against</b> |  |  |
| Uses:   | Low viscosity medium for permanent covering of microscope samples and mounting cover slips.  |  |
| Uses advised against:   | Only the identified uses are advised.  |  |
| Reason why uses advised against:  | The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes. |  |
| <b>1.3. Details of the supplier of the safety data sheet</b>                              |  |  |
| Supplier:   | BioGnost Ltd.  |  |
| Address:  | Medjugorska 59, Zagreb   |  |
| Telephone number:   | +385 1 2409997   |  |
| Telefax:  | +385 1 2404039   |  |
| e-mail of competent person:   | <a href="mailto:msds@biognost.hr">msds@biognost.hr</a>   |  |
| National contact:   | -  |  |
| <b>1.4. Emergency telephone numbers</b>   |  |  |
| National Protection and Rescue Directorate:   | 112  |  |
| Medical information:  | +385 1 2348 342  |  |
| Other information:  | -  |  |

| <b>SECTION 2. HAZARDS IDENTIFICATION</b>                                     |  |                           |
|--|--|---------------------------|
| <b>2.1. Classification of the substance or mixture</b>                       |  |                           |
| <b>2.1.1. Classification according to Regulation (EC) No 1272/2008 (CLP)</b> |  |                           |
|  | <b>Hazard class and category code:</b> | <b>Hazard statement*:</b> |
|  | Flam. Liq. 3                           | H226                      |
|  | Asp. Tox. 1                            | H304                      |
|  | Acute Tox. 4                           | H312                      |
|  | Acute Tox. 4                           | H332                      |
|  | Eye Irrit. 2                           | H319                      |
|  | Repr. 1B                               | H360Df                    |
|  | STOT RE 2                              | H373                      |
| <b>2.1.2. Additional information</b>   |  |                           |
| -  |  |                           |
| * For full text of Hazard- and EU Hazard-statements: see SECTION 16          |  |                           |

|               |                         |                      |              |          |   |
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|      |                                       |   |
|------|---------------------------------------|---|
| 2.2. | Label elements                        |   |
|      | Product identification:               | BIOMOUNT DPX LOW  |
|      | Identification number:                | -   |
|      | Authorisation number:                 | -   |
|      | Hazard pictograms:                    |  <p>GHS02</p>  <p>GHS07</p>  <p>GHS08</p>   |
|      | Signal word:                          | Danger  |
|      | Hazard statement:                     | <p>H226 Flammable liquid and vapor.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H312+H332 Harmful in contact with skin or if inhaled.</p> <p>H319 Causes serious eye irritation.</p> <p>H360Df May damage the unborn child. Suspected of damaging fertility.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p>  |
|      | Precautionary statements:             | <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P280 Wear protective gloves/protective clothing/eye/protection/face protection.</p> <p>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/attention.</p> |
|      | Supplemental hazard information (EU): | -   |
| 2.3. | Other hazards                         |   |

|               |                         |                      |              |          |   |
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|   |
|---|
| - |
|---|

**SECTION 3. Composition/information on ingredients**

| CAS/EC/ Index number                     | REACH Registration No | Weight % content (or range) | Identification name | Classification according to Regulation (EC) No 1272/2008 (CLP)  |
|--|-----------------------|-----------------------------|---------------------|---|
| 1330-20-7/<br>215-535-7/<br>601-022-00-9 | 01-2119488216-32-XXXX | ≥ 50 %                      | xylene              | Flam. Liq. 3; H226<br>Asp. Tox. 1; H304<br>Acute Tox. 4 ; H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>STOT RE 2; H373 |
| 84-74-2/<br>201-557-4/<br>607-318-00-4   | -                     | < 10 %                      | dibutyl phthalate   | Repr. 1B; H360Df<br>Aquatic Acute 1; H400   |

**SECTION 4. First aid measures**

|   |  |  |
|---|--|--|
| <b>4.1. Description of first aid measures</b>                           |  |  |
| General notes:  | Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. Immediately remove any clothing soiled by the product.                   |  |
| Following inhalation:   | Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation. |  |
| Following skin contact:   | Remove contaminated clothing. Immediately wash with plenty of water and soap and rinse thoroughly. If symptoms persist, consult a doctor.  |  |
| Following eye contact:  | Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.   |  |
| Following ingestion:  | DO NOT induce vomiting. If symptoms persist, consult a doctor.   |  |
| Self-protection of the first aider                                      | Avoid direct contact with the chemical; use appropriate protective equipment described in Section 8.   |  |
| <b>4.2. Most important symptoms and effects, both acute and delayed</b> |  |  |
| Following inhalation:   | High concentration vapor inhalation may cause headache, dizziness, difficult breathing and unconsciousness.  |  |
| Following skin contact:   | Causes skin irritation, redness, swelling. Prolonged or repeated contact causes defatting and dry skin.  |  |
| Following eye contact:  | Vapors irritate eyes. Splashing may cause irritation and redness.  |  |

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|                      |   |
|----------------------|---|
| Following ingestion: | Nausea, vomiting (danger of aspiration), diarrhoea. Aspiration may cause headache, vertigo, nausea, dazed feeling-unconsciousness/coma, possible hypothermia, reactions to the heart/circulatory system such as vasodilation (flush), hypotension, arrhythmia (possible ventricular fibrillation through cardiac sensitization), danger of central respiratory paralysis or of cardiac arrest; functional disturbance to the liver and kidneys and persistent disturbance to the CNS as sequelae. |
| 4.3.                 | Indication of any immediate medical attention and special treatment needed  |
|                      | No further relevant information available.  |

| <b>SECTION 5. Firefighting measures</b> |   |
|---|---|
| 5.1.                                    | Extinguishing media   |
|   | Suitable extinguishing media: CO <sub>2</sub> , powder or water spray. Fight larger fires with water spray or alcohol resistant foam. |
|   | Unsuitable extinguishing media: water with full jet   |
| 5.2.                                    | Special hazards arising from the substance or mixture   |
|   | Hazardous by products of fire: Formation of toxic gases is possible during heating or in case of fire.                                |
| 5.3.                                    | Advice for firefighters   |
|   | Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.  |
| 5.4.                                    | Additional information  |
|   | Collect contaminated firefighting water separately.<br>Do not contaminate the environment with extinguishing media.                   |

| <b>SECTION 6. Accidental release measures</b> |  |
|---|--|
| 6.1.  | Personal precautions, protective equipment and emergency procedures  |
| 6.1.1.  | For non-emergency personnel  |
|   | Protective equipment: Use personal protective equipment (see Section 8). Keep unprotected persons away.  |
|   | Accident prevention methods: Evacuate members of all non-essential personnel and those members without protective equipment. Do not breathe in vapor, ensure adequate ventilation and avoid contact with skin and eyes. Remove all sources of sparks and ignition. Do not smoke. |
|   | Emergency procedures: Mark the area using proper signs.  |
| 6.1.2.  | For emergency responders:  |
|   | Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).   |
| 6.2.  | Environmental precautions:   |
|   | Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.  |

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|  |  |
|--|--|
| <b>6.3. Methods and materials for containment and cleaning up</b>  |  |
| 6.3.1.   | Bunding, covering of drains; capping procedures:<br>Sand or clay barriers.   |
| 6.3.2.   | Cleaning up:<br>Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water. |
| 6.3.3.   | Other information:<br>Do not use tools that may cause sparks.  |
| <b>6.4. Reference to other sections</b>  |  |
| See Section 7 for information on safe handling.<br>See Section 8 for information on personal protection equipment.<br>See Section 13 for disposal information. |  |

|  |   |
|--|---|
| <b>SECTION 7. Handling and storage</b>   |   |
| <b>7.1. Precautions for safe handling</b>  |   |
| <b>7.1.1. Protection measures</b>  |   |
| Measures to prevent fire:  | Use in well ventilated storage rooms. Keep away from sources of heat and ignition. Carry out measures for preventing static electricity.                                    |
| Measures to prevent aerosol and dust generation:   | Secure proper ventilation.  |
| Measures to protect the environment:   | Prevent spilling into the sewage system and waterways.  |
| Other measures:  | -   |
| <b>7.1.2. Advice on general occupational hygiene:</b>  |   |
| Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating. |   |
| <b>7.2. Conditions for safe storage, including any incompatibilities</b>                         |   |
| Technical measures and storage conditions:   | Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.           |
| Packaging materials:   | Manufacturer's original packaging.  |
| Requirements for storage rooms and vessels:  | Keep away from food and drink. Keep the containers tightly closed.  |
| Advices for storage equipment:   | The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation. |

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|--|--|
| Further information on storage conditions: | Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10). |
| 7.3. Specific end use(s)                   |  |
| Recommendations:                           | -  |
| Industrial sector specific solutions:      | -  |

**SECTION 8. Exposure controls/personal protection**

8.1. Control parameters

| Substance            | CAS No    | Occupational exposure limit values/short term values |                   | Biological limit values  |
|----------------------|-----------|--|-------------------|--|
|                      |           | ppm  | mg/m <sup>3</sup> |  |
| Xylene (all isomers) | 1330-20-7 | 50/100   | 220/440           | 1.50 mg/L (14.13 µmol/L) xylene, blood, end of shift<br>1.50 g/g (0.88 mol/mol) creatinine (methyl hippuric acid, urine, end of shift) |
| Dibutyl phthalate    | 84-74-2   | -/-  | 5/10              | -  |

Substance: -

EC No: - CAS No: -

**DNEL**

**Industrial**

| Route of exposure: | Acute effect local             | Acute effect systemic | Chronic effect local | Chronic effect systemic       |
|--------------------|--------------------------------|-----------------------|----------------------|-------------------------------|
| Oral               | -                              | -                     | -                    | -                             |
| Inhalation         | 289 mg/m <sup>3</sup> (xylene) | -                     | -                    | 77 mg/m <sup>3</sup> (xylene) |
| Dermal             | -                              | -                     | -                    | 180 mg/kg (xylene)            |

Critical physical parameters: solubility, flammability, corrosivity: -

**Consumer**

| Route of exposure: | Acute effect local             | Acute effect systemic | Chronic effect local | Chronic effect systemic         |
|--------------------|--------------------------------|-----------------------|----------------------|---------------------------------|
| Oral               | -                              | -                     | -                    | -                               |
| Inhalation         | 174 mg/m <sup>3</sup> (xylene) | -                     | -                    | 14,8 mg/m <sup>3</sup> (xylene) |
| Dermal             | -                              | -                     | -                    | 108 mg/kg (xylene)              |

**PNEC**

|               |                         |                      |              |          |   |
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| Environmental protection target    | PNEC                     |
|------------------------------------|--------------------------|
| Fresh water                        | 0.327 mg/l (xylene)      |
| Freshwater sediments               | 12.46 mg/kg (xylene)     |
| Marine water                       | 0.327 mg/l (xylene)      |
| Marine sediments                   | 12.46 mg/kg (xylene)     |
| Food chain                         | 0.327 mg/l (xylene)      |
| Microorganisms in sewage treatment | 6.58 mg/l (xylene)       |
| Soil (agricultural)                | 2.31 mg/kg (xylene)      |
| Air                                | No information available |

**8.2. Exposure controls**

**8.2.1. Appropriate engineering controls**

|  |  |
|--|--|
| Substance/mixture related measures to prevent exposure during identified uses: | Use personal protective equipment. Do not eat, drink or smoke in the workspace.                          |
| Structural measures to prevent exposure:                                       | No information available   |
| Organisational measures to prevent exposure:                                   | Organization of work in order to reduce other worker's influence during work process.                    |
| Technical measures to prevent exposure:  | Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. |

**8.2.2. Personal protection equipment:**

|                                   |   |
|-----------------------------------|---|
| 8.2.2.1. Eye and face protection: | Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU) |
|-----------------------------------|---|

**8.2.2.2. Skin protection**

|                  |  |
|------------------|--|
| Hand protection: | <p>Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.</p> <p>Full contact:</p> <ul style="list-style-type: none"> <li>Glove material: Viton</li> <li>Glove thickness: 0.7 mm</li> <li>Break through time: 480 min</li> </ul> <p>Splash contact:</p> <ul style="list-style-type: none"> <li>Glove material: Nitrile rubber</li> <li>Glove thickness: 0.4 mm</li> <li>Break through time: 35 min</li> </ul> |
|------------------|--|

|               |                         |                      |              |          |   |
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|          |   |   |
|----------|---|---|
|          | Other skin protection:                                  | Complete suit protecting against chemicals, flame retardant antistatic protective clothing (EN 13688). The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.  |
| 8.2.2.3. | Respiratory protection:                                 | Where risk assessment shows air-purifying respirators are appropriate use type ABEK (EN 14387) respirator cartridges as a backup to engine protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as CEN (EU). |
| 8.2.2.4. | Thermal hazards:  | No information available  |
| 8.2.3.   | Environmental exposure controls                         |   |
|          | Substance/mixture related measures to prevent exposure: | See Section 6   |
|          | Structural measures to prevent exposure:                | Use modern equipment.   |
|          | Organisational measures to prevent exposure:            | Adapt the work process to the required working conditions of the workplace.   |
|          | Technical measures to prevent exposure:                 | See Section 6   |

**SECTION 9. Physical and chemical properties**

|      |   |                          |                          |
|------|---|--------------------------|--------------------------|
| 9.1. | Information on basic physical and chemical properties |                          |                          |
|      |   | Value                    | Method                   |
|      | Physical state:                                       | liquid                   | No information available |
|      | Colour:   | colorless                | No information available |
|      | Odour:  | aromatic                 | No information available |
|      | Odour threshold:                                      | No information available | No information available |
|      | pH:   | No information available | No information available |
|      | Melting point / freezing point;                       | No information available | No information available |
|      | Initial boiling point and boiling range:              | No information available | No information available |
|      | Flash point:  | 29 °C                    | No information available |
|      | Evaporation rate:                                     | No information available | No information available |
|      | Flammability (solid, gas):                            | No information available | No information available |
|      | Upper/lower flammability or explosive limits:         | No information available | No information available |
|      | Vapour pressure:                                      | No information available | No information available |
|      | Vapour density:                                       | No information available | No information available |
|      | Relative density                                      | No information available | No information available |
|      | Bulk density:   | No information available | No information available |



|               |                         |                      |              |          |   |
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|   |                          |                          |
|---|--------------------------|--------------------------|
| Solubility(ies):                                  | Insoluble in water       | No information available |
| Partition coefficient: n-octanol/water (log Pow): | No information available | No information available |
| Auto-ignition temperature:                        | No information available | No information available |
| Decomposition temperature:                        | No information available | No information available |
| Viscosity:  | No information available | No information available |
| Explosive properties:                             | No information available | No information available |
| Oxidising properties:                             | No information available | No information available |
| 9.2. Other information                            |                          |                          |
| -   |                          |                          |

| <b>SECTION 10.: Stability and reactivity</b> |  |  |
|--|--|--|
| 10.1. Reactivity:                            | No relevant information available.                                     |  |
| 10.2. Chemical stability:                    | The product is chemically stable under recommended storage conditions. |  |
| 10.3. Possibility of hazardous reactions:    | No dangerous reactions known.  |  |
| 10.4. Conditions to avoid:                   | Sources of heat, flames and sparks.                                    |  |
| 10.5. Incompatible materials:                | Strong oxidizing agents.   |  |
| 10.6. Hazardous decomposition products:      | Carbon monoxide.   |  |

| <b>SECTION 11. Toxicological information</b>                |                          |         |   |                          |  |
|---|--------------------------|---------|---|--------------------------|--|
| 11.1. Information on toxicological effects                  |                          |         |   |                          |  |
| Acute toxicity:   |                          |         |   |                          |  |
| Route of exposure:  | Method                   | Species | Effective Dose<br>LD <sub>50</sub> /LC <sub>50</sub> or<br>ATE <sub>mixture</sub> | Exposure time            | Results                                    |
| Oral:   | No information available | rat     | LD <sub>50</sub>  | No information available | 3.523 mg/kg (xylene)<br>8.000 mg/kg (DBP)  |
| Dermal:   | No information available | rabbit  | LD <sub>50</sub>  | No information available | 1.134 mg/kg (xylene)<br>20.860 mg/kg (DBP) |
| Inhalation:   | No information available | rat     | LC <sub>50</sub>  | 4 h                      | 11.,23 mg/l (xylene)<br>15.68 mg/l (DBP)   |
| Specific target organ toxicity - single exposure (STOT-SE): |                          |         |   |                          |  |
|   | Specific effects         |         | Target organ  |                          | Note                                       |
| Oral:   | No information available |         | No information available  |                          | -  |
| Dermal:   | No information available |         | No information available  |                          | -  |

|               |                         |                      |              |          |   |
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|             |                          |                    |                                  |
|-------------|--------------------------|--------------------|----------------------------------|
| Inhalation: | No information available | Respiratory system | May cause respiratory irritation |
|-------------|--------------------------|--------------------|----------------------------------|

|                    |  |
|--------------------|--|
| Aspiration hazard: | May cause respiratory irritation. May be fatal if swallowed and enters respiratory system. |
|--------------------|--|

**Irritation and corrosion**

|                               | Exposure time | Species         | Evaluation | Method | Note                     |
|-------------------------------|---------------|-----------------|------------|--------|--------------------------|
| Skin corrosion/irritation     | 24h           | rabbit (xylene) | -          | -      | Causes skin irritation.  |
| Serious eye damage/irritation | -             | -               | -          | -      | No information available |

**Sensitization**

|                            |                          |
|----------------------------|--------------------------|
| Skin sensitization:        | No information available |
| Respiratory sensitization: | No information available |

**Symptoms related to physical, chemical, and toxicological properties**

|                      |   |
|----------------------|---|
| Oral exposure:       | Nausea, vomiting (danger of aspiration), diarrhoea. Aspiration may cause headache, vertigo, nausea, dazed feeling-unconsciousness/coma, possible hypothermia, reactions to the heart/circulatory system such as vasodilation (flush), hypotension, arrhythmia (possible ventricular fibrillation through cardiac sensitization), danger of central respiratory paralysis or of cardiac arrest; functional disturbance to the liver and kidneys and persistent disturbance to the CNS as sequelae. |
| Dermal exposure:     | Causes skin irritation, redness, swelling. Prolonged or repeated contact causes defatting and dry skin.   |
| Inhalation exposure: | Vapor inhalation may cause nose and throat irritation followed by sore throat, cough, difficult breathing and suffocating. High concentration vapor inhalation may cause headache, malaise and fatigue, difficult breathing, chest tightness, coordination and CNS disorders.   |
| Eye exposure:        | Vapors irritate eyes. Splashing may cause irritation and redness, lacrimation, pain, swelling, blurred vision, photophobia.   |

**Repeated dose toxicity (subacute, subchronic, chronic)**

|               | Dose                     | Exposure time            | Species                  | Method                   | Evaluation               | Note |
|---------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------|
| Subacute oral | No information available | No information available | No information available | No information available | No information available | -    |

|               |                         |                      |              |          |   |  |
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|                       |                          |                          |                          |                          |                          |   |
|-----------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|
| Subacute dermal       | No information available | No information available | No information available | No information available | No information available | - |
| Subacute inhalation   | No information available | No information available | No information available | No information available | No information available | - |
| Subchronic oral       | No information available | No information available | No information available | No information available | No information available | - |
| Subchronic dermal     | No information available | No information available | No information available | No information available | No information available | - |
| Subchronic inhalation | No information available | No information available | No information available | No information available | No information available | - |
| Chronic oral          | No information available | No information available | No information available | No information available | No information available | - |
| Chronic dermal        | No information available | No information available | No information available | No information available | No information available | - |
| Chronic inhalation    | No information available | No information available | No information available | No information available | No information available | - |

Specific target organ toxicity - repeated exposure (STOT-RE):

|                       | Specific effects         | Target organ                          | Note                        |
|-----------------------|--------------------------|---------------------------------------|-----------------------------|
| Subacute oral         | No information available | No information available              | -                           |
| Subacute dermal       | No information available | No information available              | -                           |
| Subacute inhalation   | No information available | No information available              | -                           |
| Subchronic oral       | No information available | No information available              | -                           |
| Subchronic dermal     | No information available | No information available              | -                           |
| Subchronic inhalation | No information available | No information available              | -                           |
| Chronic oral          | No information available | No information available              | -                           |
| Chronic dermal        | No information available | No information available              | -                           |
| Chronic inhalation    | No information available | Central nervous system, liver, kidney | May cause damage to organs. |

CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)

|               |                         |                      |              |          |   |
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|  |   |  |
|--|---|--|
| Carcinogenicity:                             | No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.               |  |
| Mutagenicity <i>in-vitro</i> :               | No information available  |  |
| Genotoxicity:                                | No information available  |  |
| Mutagenicity <i>in-vivo</i> :                | No information available  |  |
| Germ cell mutagenicity :                     | No information available  |  |
| Reproductive toxicity:                       | Presumed human reproductive toxicant (Dibutyl phthalate). Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.(Dibutyl phthalate). |  |
| Summary of evaluation of the CMR properties: | Studies did not demonstrate CMR effects.  |  |
| <b>11.2. Practical experiences:</b>          |   |  |
| Classification observations:                 | No information available  |  |
| Other observations:                          | No information available  |  |
| <b>11.3. General notes:</b>                  |   |  |
| -  |   |  |

**SECTION 12. Ecological information**

**12.1. Toxicity**

| Acute (short-term) toxicity  | Dose             | Exposure time | Species  | Method                   | Evaluation                            | Note |
|------------------------------|------------------|---------------|--|--------------------------|---------------------------------------|------|
| Fish                         | LC <sub>50</sub> | 96 hours      | Oncorhynchus mykiss (rainbow trout; xylene)<br>Pimephales promelas (DBP) | No information available | 3.3 mg/l (xylene)<br>0.85 mg/l (DBP)  | -    |
| Crustacea:                   | EC <sub>50</sub> | 48 hours      | Daphnia magna  | No information available | 75.49 mg/l (xylene)<br>3.7 mg/l (DBP) | -    |
| Algae/aquatic plants:        | IC <sub>50</sub> | 72 hours      | Pseudokirchneriella subcapitata  | No information available | 72 mg/l (xylene)                      | -    |
| Other organisms:             | -                | -             | -  | -                        | -                                     | -    |
| Chronic (long-term) toxicity | Doza             | Exposure time | Species  | Method                   | Evaluation                            | Note |

|               |                         |                      |              |          |   |
|---------------|-------------------------|----------------------|--------------|----------|---|
| Trade name:   | <b>BIOMOUNT DPX LOW</b> |                      |              |          |   |
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|                       |                  |          |                          |                          |                          |   |
|-----------------------|------------------|----------|--------------------------|--------------------------|--------------------------|---|
| Fish                  | LC <sub>50</sub> | 96 hours | No information available | No information available | No information available | - |
| Crustacea:            | EC <sub>50</sub> | 48 hours | No information available | No information available | No information available | - |
| Algae/aquatic plants: | IC <sub>50</sub> | 72 hours | No information available | No information available | No information available | - |
| Other organisms:      | -                | -        | -                        | -                        | -                        | - |

**12.2. Persistence and degradability**

|                     |                          |                          |  |                          |      |
|---------------------|--------------------------|--------------------------|--|--------------------------|------|
| Abiotic degradation |                          |                          |  |                          |      |
|                     | Degradation half-lives   | Method                   |  | Evaluation               | Note |
| Marine water        | No information available | No information available |  | No information available | -    |
| Fresh water         | No information available | No information available |  | No information available | -    |
| Air                 | No information available | No information available |  | No information available | -    |
| Soil                | No information available | No information available |  | No information available | -    |

**Biodegradation**

|               |                          |                          |                          |                        |
|---------------|--------------------------|--------------------------|--------------------------|------------------------|
| % Degradation | Time (days)              | Method                   | Evaluation               | Note                   |
| 81% (DBP)     | No information available | No information available | No information available | Readily biodegradable. |
|               |                          |                          |                          |                        |
|               |                          |                          |                          |                        |

**12.3. Bioaccumulative potential**

**Octanol-water partition coefficient (log K<sub>ow</sub>)**

|                          |                          |    |    |                          |                          |        |
|--------------------------|--------------------------|----|----|--------------------------|--------------------------|--------|
| Value                    | Concentration            | pH | °C | Method                   | Evaluation               | Note   |
| log K <sub>ow</sub> 2.95 | No information available | -  | -  | No information available | No information available | xylene |
|                          |                          |    |    |                          |                          |        |
|                          |                          |    |    |                          |                          |        |

**Bioconcentration Factor (BCF)**

|             |                                      |                          |            |                        |
|-------------|--------------------------------------|--------------------------|------------|------------------------|
| Value       | Species                              | Method                   | Evaluation | Note                   |
| 2.165 (DBP) | Pimephales promelas (fathead minnow) | No information available | -          | does not bioaccumulate |

|               |                         |                      |              |          |   |  |
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|  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|

| Chronic ecotoxicity                     |                  |                          |                          |                          |                          |      |
|---|------------------|--------------------------|--------------------------|--------------------------|--------------------------|------|
| Value                                   | Dose             | Exposure time            | Species                  | Method                   | Evaluation               | Note |
| Chronic toxicity on fish                | LC <sub>50</sub> | No information available | No information available | No information available | No information available | -    |
| Chronic toxicity on crustacea (Daphnia) | EC <sub>50</sub> | No information available | No information available | No information available | No information available | -    |

**12.4. Mobility in soil**

| Known or predicted distribution in environmental compartments: |                          |                          |                          |      |  |  |
|--|--------------------------|--------------------------|--------------------------|------|--|--|
| No information available                                       |                          |                          |                          |      |  |  |
| Surface tension:   |                          |                          |                          |      |  |  |
| Value  | °C                       | Concentration            | Method                   | Note |  |  |
| No information available                                       | No information available | No information available | No information available | -    |  |  |

**Adsorption / desorption**

| Transport  | A/D coefficient Henry's constant | log Kow                  | Evaporation rate         | Method                   | Note |
|------------|----------------------------------|--------------------------|--------------------------|--------------------------|------|
| Soil-Water | No information available         | No information available | No information available | No information available | -    |
| Water-Air  | No information available         | No information available | No information available | No information available | -    |
| Soil-Air   | No information available         | No information available | No information available | No information available | -    |

**12.5. Results of PBT and vPvB assessment**

|                          |  |  |  |  |  |  |
|--------------------------|--|--|--|--|--|--|
| No information available |  |  |  |  |  |  |
|--------------------------|--|--|--|--|--|--|

**12.6. Other adverse effects**

|                          |  |  |  |  |  |  |
|--------------------------|--|--|--|--|--|--|
| No information available |  |  |  |  |  |  |
|--------------------------|--|--|--|--|--|--|

|               |                         |                      |              |          |   |
|---------------|-------------------------|----------------------|--------------|----------|---|
| Trade name:   | <b>BIOMOUNT DPX LOW</b> |                      |              |          |   |
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|  |  |
|--|--|
| <b>SECTION 13. Disposal considerations</b> |  |
| 13.1.                                      | Waste processing methods   |
| 13.1.1.                                    | Product/Packaging disposal:<br>Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.  |
| 13.1.2.                                    | Waste codes/waste designations according to Low:<br>Disposal must be made according to official regulations.   |
| 13.1.3.                                    | Waste treatment – relevant information<br>No information available   |
| 13.1.4.                                    | Sewage disposal – relevant information:<br>Waste must not be disposed of into the sewage system.   |
| 13.1.5.                                    | Other disposal recommendations:<br>Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur. |
| 13.1.6.                                    | Relevant Community provisions:<br>Disposal must be made according to official regulations.   |
| <b>SECTION 14. Transport information</b>   |  |
| Transporting/shipment by road (ADR)        |  |
| UN number:                                 | 1307   |
| UN proper shipping name:                   | Xylenes  |
| Transport hazard class(es):                | 3  |
| Packing group:                             | III  |
| Environmental hazards:                     | -  |
| Special precautions for user:              | -  |
| Transporting/shipment by rail (RID)        |  |
| UN number:                                 | 1307   |
| UN proper shipping name:                   | Xylenes  |
| Transport hazard class(es):                | 3  |

|               |                         |                      |              |          |   |
|---------------|-------------------------|----------------------|--------------|----------|---|
| Trade name:   | <b>BIOMOUNT DPX LOW</b> |                      |              |          |   |
| Product code: | BML-X**                 | Date of compilation: | 17 June 2019 | Version: | 3 |

|                               |     |
|-------------------------------|-----|
| Packing group:                | III |
| Environmental hazards:        | -   |
| Special precautions for user: | -   |

Transporting/shipment by inland waterways (ADN)

|                               |         |
|-------------------------------|---------|
| UN number:                    | 1307    |
| UN proper shipping name:      | Xylenes |
| Transport hazard class(es):   | 3       |
| Packing group:                | III     |
| Environmental hazards:        | -       |
| Special precautions for user: | -       |

Transporting/shipment by sea (IMDG)

|   |         |
|---|---------|
| UN number:  | 1307    |
| UN proper shipping name:  | Xylenes |
| Transport hazard class(es):   | 3       |
| Packing group:  | III     |
| Environmental hazards:  | -       |
| Special precautions for user:   | -       |
| Transport in bulk condition in accordance with Annex II. of MARPOL 73/78 and IBC Codex: | -       |

Transporting/shipment by air (ICAO-TI/IATA-DGR)

|                               |         |
|-------------------------------|---------|
| UN number:                    | 1307    |
| UN proper shipping name:      | Xylenes |
| Transport hazard class(es):   | 3       |
| Packing group:                | III     |
| Environmental hazards:        | -       |
| Special precautions for user: | -       |

|                      |   |
|----------------------|---|
| Further information: | - |
|----------------------|---|

| <b>SECTION 15. Regulatory information</b> |  |
|---|--|
| 15.1.                                     | Safety, health and environmental regulations/legislation specific for the substance or mixture |
|   | EU regulations   |
|   | Authorisation and/or restrictions on use   |
|   | Authorisations: -  |
|   | Restrictions: -  |



|               |                         |                      |              |          |   |
|---------------|-------------------------|----------------------|--------------|----------|---|
| Trade name:   | <b>BIOMOUNT DPX LOW</b> |                      |              |          |   |
| Product code: | BML-X**                 | Date of compilation: | 17 June 2019 | Version: | 3 |

|  |   |
|--|---|
| Other EU regulations:  | <p>EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;</p> <p>The European Commission Regulation No. 453/2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH);</p> <p>EC Regulation No. 2037/2000 of the European Parliament and Council of 29 June 2000 on ozone-depleting substances;</p> <p>EC Regulation No. 689/2008 of the European Parliament and Council of 17 June 2008 concerning the export and import of dangerous chemicals;</p> <p>EC Regulation No. 850/2004 of the European Parliament and Council of 29 April 2004 on persistent organic pollutants;</p> <p>Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives</p> |
| Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline) |   |
| National legislation:  | <p>Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act</p>  |
| 15.2.  | Chemical safety assessment  |
|  | None  |

| <b>SECTION 16. Other information</b> |   |
|--------------------------------------|---|
| 16.1.                                | Indication of changes: -  |
| 16.2.                                | <p>Abbreviations and acronyms:</p> <p>PBT Stable, bioaccumulative and toxic</p> <p>vPvB Strongly stable and strongly bioaccumulative</p> <p>LD<sub>50</sub> Lethal dose, 50%</p> <p>LC<sub>50</sub> Lethal concentration, 50%</p> <p>STOT – SE Specific target organ toxicity - single exposure</p> |
| 16.3.                                | Key literature references and source of data: -   |
| 16.4.                                | Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)   |
|                                      | Classification  |
|                                      | Classification procedure  |
|                                      | -   |
| 16.5.                                | Relevant H statements (number and full text)  |

|               |                         |                      |              |          |   |
|---------------|-------------------------|----------------------|--------------|----------|---|
| Trade name:   | <b>BIOMOUNT DPX LOW</b> |                      |              |          |   |
| Product code: | BML-X**                 | Date of compilation: | 17 June 2019 | Version: | 3 |

|       |                      |  |
|-------|----------------------|--|
|       | H226                 | Flammable liquid and vapor.  |
|       | H304                 | May be fatal if swallowed and enters airways.  |
|       | H312                 | Harmful in contact with skin.  |
|       | H332                 | Harmful if inhaled.  |
| H:    | H315                 | Causes skin irritation.  |
|       | H319                 | Causes serious eye irritation.   |
|       | H335                 | May cause respiratory irritation.  |
|       | H360Df               | May damage the unborn child. Suspected of damaging fertility.  |
|       | H373                 | May cause damage to organs through prolonged or repeated exposure.   |
|       | H400                 | Very toxic to aquatic life.  |
| 16.6. | Training advice:     | -  |
| 16.7. | Further information: | ** "X" in the product code marks different volumes (different packaging of the product)<br>We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet. |

|   |  |  |
|---|--|--|
| <b>ANNEX: Exposure scenario resulting to Chemical safety assessment</b> |  |  |
| -   |  |  |