

# B-O-G Modified Urethane Coating Safety Data Sheet

| SECTION 1: Identification   |   |
|---|---|
| 1.1. Product identifier   |   |
| Product name  | : B-O-G Modified Urethane Coating   |
| 1.2. Recommended use and restrictions   | on use  |
| Recommended uses and restrictions   | : Concrete sealer. For professional use only.   |
| 1.3. Supplier   |   |
| Ameripolish Inc.<br>120 Commercial Ave<br>Lowell, AR 72745<br>T 479-725-0033  |   |
| 1.4. Emergency telephone number   |   |
| Emergency number  | : Velocity EHS 800-255-3924   |
| SECTION 2: Hazard identification  |   |
| 2.1. Classification of the substance or mi  | ixture  |
| Classification (GHS CAN/US)<br>Skin corrosion/irritation Category 2<br>Serious eye damage/eye irritation Category 2 | H315<br>H319  |
| 2.2. GHS Label elements, including preca  | autionary statements  |
| GHS CAN/US labeling   |   |
| Hazard pictograms   |   |
| Signal word   | : Danger  |
| Hazard statements   | : H315 - Causes skin irritation<br>H319 - Causes serious eye irritation   |
| Precautionary statements  | <ul> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P302+P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P321 - Specific treatment (see supplemental first aid instruction on this label).</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention.</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention.</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse.</li> </ul> |
| 2.3. Other hazards  |   |

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No data available

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#### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

#### Not applicable

#### 3.2. Mixtures

| Name        | Product identifier | %            |
|-------------|--------------------|--------------|
| Component 1 | Trade Secret       | Trade Secret |
| Component 2 | Trade Secret       | Trade Secret |
| Component 3 | Trade Secret       | Trade Secret |
| Component 4 | Trade Secret       | Trade Secret |
| Component 5 | Trade Secret       | Trade Secret |
|             |                    |              |

| SECTION 4: First-aid measures  |   |  |
|--|---|--|
| 4.1. Description of first aid measures   |   |  |
| First-aid measures after inhalation  | : When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.  |  |
| First-aid measures after skin contact  | : Immediately drench affected area with water for at least 15 minutes. Immediately remove contaminated clothing. Obtain medical attention if irritation develops or persists.                               |  |
| First-aid measures after eye contact   | : Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.                    |  |
| First-aid measures after ingestion   | : Rinse mouth. Do NOT induce vomiting. Seek medical attention.  |  |
| 4.2. Most important symptoms and effects (acute and delayed)   |   |  |
| Symptoms/effects after inhalation<br>Symptoms/effects after skin contact<br>Symptoms/effects after eve contact | <ul> <li>Prolonged exposure may cause irritation.</li> <li>Prolonged exposure may cause skin irritation.</li> <li>Contact causes severe irritation with redness and swelling of the conjunctiva.</li> </ul> |  |
| Symptoms/effects after ingestion   | : May be harmful if swallowed.  |  |

4.3. Immediate medical attention and special treatment, if necessary

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

| SECTION 5: Fire-fighting measures                        |   |  |
|--|---|--|
| 5.1. Suitable extinguishing media                        |   |  |
| Suitable extinguishing media                             | : Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Water may be ineffective but water should be used to keep fire-exposed container cool. |  |
| 5.2. Unsuitable extinguishing media                      |   |  |
| Unsuitable extinguishing media                           | : Do not use a heavy water stream. A heavy water stream may spread burning liquid.  |  |
| 5.3. Specific hazards arising from the hazardous product |   |  |
| Fire hazard<br>Explosion hazard                          | : None<br>: None known.   |  |

SECTION 6: Accidental release measures

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| 5.4. Special protective equipment and precautions for fire-fighters |  |  |  |
|---|--|--|--|
| Protection during firefighting                                      | Firefighters should wear full protective gear. |  |  |
|   |  |  |  |

| 6.1. Personal precautions, protective equipment and emergency procedures              |   |  |  |
|---|---|--|--|
| Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray). |   |  |  |
| 6.2. Methods and materials for containment and cleaning up                            |   |  |  |
| For containment :   | Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.   |  |  |
| Methods for cleaning up :   | Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. |  |  |

#### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

| SECTION 7: Handling and stor                                      | age   |  |
|---|---|--|
| 7.1. Precautions for safe handling                                |   |  |
| Precautions for safe handling                                     | : Avoid contact with skin, eyes and clothing. Wash hands and other exposed areas with mild soap<br>and water before eating, drinking or smoking and when leaving work. Avoid breathing vapors,<br>mist, spray.                |  |
| 7.2. Conditions for safe storage, including any incompatibilities |   |  |
| Storage conditions  | <ul> <li>Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low<br/>temperatures and incompatible materials. Store in a well-ventilated place. Keep container tightly<br/>closed.</li> </ul> |  |

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

| Component 4                                     |                       |
|---|-----------------------|
| Canada (Alberta) - Occupational Exposure Limits |                       |
| OEL TWA   | 4.1 mg/m <sup>3</sup> |
| OEL TWA [ppm]                                   | 1 ppm                 |
| OEL STEL  | 12 mg/m³              |
| OEL STEL [ppm]                                  | 3 ppm                 |
| Canada (Quebec) - Occupational Exposure Limits  |                       |
| VECD (OEL STEL)                                 | 61.5 mg/m³            |
| VECD (OEL STEL) [ppm]                           | 15 ppm                |
| VEMP (OEL TWA)                                  | 20.5 mg/m³            |
| VEMP (OEL TWA) [ppm]                            | 5 ppm                 |

| Component 4   |                     |  |
|---|---------------------|--|
| Canada (British Columbia) - Occupational Exposure     | e Limits            |  |
| OEL TWA [ppm]   | 1 ppm               |  |
| OEL STEL [ppm]  | 3 ppm               |  |
| Canada (Manitoba) - Occupational Exposure Limits      |                     |  |
| OEL TWA [ppm]   | 0.5 ppm             |  |
| OEL STEL [ppm]  | 1 ppm               |  |
| Canada (New Brunswick) - Occupational Exposure Limits |                     |  |
| OEL TWA   | 4.1 mg/m³           |  |
| OEL TWA [ppm]   | 1 ppm               |  |
| OEL STEL  | 12 mg/m³            |  |
| OEL STEL [ppm]  | 3 ppm               |  |
| Canada (Newfoundland and Labrador) - Occupation       | nal Exposure Limits |  |
| OEL TWA [ppm]   | 0.5 ppm             |  |
| OEL STEL [ppm]  | 1 ppm               |  |
| Canada (Nova Scotia) - Occupational Exposure Lim      | its                 |  |
| OEL TWA [ppm]   | 0.5 ppm             |  |
| OEL STEL [ppm]  | 1 ppm               |  |
| Canada (Nunavut) - Occupational Exposure Limits       |                     |  |
| OEL TWA [ppm]   | 1 ppm               |  |
| OEL STEL [ppm]  | 3 ppm               |  |
| Canada (Northwest Territories) - Occupational Expo    | osure Limits        |  |
| OEL TWA [ppm]   | 1 ppm               |  |
| OEL STEL [ppm]  | 3 ppm               |  |
| Canada (Ontario) - Occupational Exposure Limits       |                     |  |
| OEL TWA [ppm]   | 0.5 ppm             |  |
| OEL STEL [ppm]  | 1 ppm               |  |
| Canada (Prince Edward Island) - Occupational Expo     | osure Limits        |  |
| OEL TWA [ppm]   | 0.5 ppm             |  |
| OEL STEL [ppm]  | 1 ppm               |  |
| Canada (Saskatchewan) - Occupational Exposure Limits  |                     |  |
| OEL TWA [ppm]   | 1 ppm               |  |
| OEL STEL [ppm]  | 3 ррм               |  |
| Canada (Yukon) - Occupational Exposure Limits         |                     |  |
| OEL TWA   | 100 mg/m³           |  |
| OEL TWA [ppm]   | 25 ppm              |  |
| OEL STEL  | 150 mg/m³           |  |
| OEL STEL [ppm]  | 40 ppm              |  |

| Component 4   |   |  |
|---|---|--|
| USA - ACGIH - Occupational Exposure Limits                        |   |  |
| ACGIH OEL TWA [ppm]   | 0.5 ppm   |  |
| ACGIH OEL STEL [ppm]  | 1 ppm   |  |
| ACGIH chemical category   | Skin - potential significant contribution to overall exposure by the cutaneous route, Not Classifiable as a Human Carcinogen                  |  |
| USA - OSHA - Occupational Exposure Limits                         |   |  |
| OSHA PEL (TWA) [1]  | 100 mg/m³   |  |
| OSHA PEL (TWA) [2]  | 25 ppm  |  |
| Component 3   |   |  |
| Canada (Yukon) - Occupational Exposure Limits                     |   |  |
| OEL TWA   | 300 particle/mL (as measured by Konimeter instrumentation)<br>20 mppcf (as measured by Impinger instrumentation)<br>2 mg/m³ (respirable mass) |  |
| Component 2   |   |  |
| Canada (Alberta) - Occupational Exposure Limits                   |   |  |
| OEL TWA   | 97 mg/m³  |  |
| OEL TWA [ppm]   | 20 ppm  |  |
| Canada (Quebec) - Occupational Exposure Limits                    |   |  |
| VEMP (OEL TWA)  | 97 mg/m³  |  |
| VEMP (OEL TWA) [ppm]  | 20 ppm  |  |
| Canada (British Columbia) - Occupational Exposure                 | e Limits  |  |
| OEL TWA [ppm]   | 20 ppm  |  |
| Canada (Manitoba) - Occupational Exposure Limits                  |   |  |
| OEL TWA [ppm]   | 20 ppm  |  |
| Canada (New Brunswick) - Occupational Exposure Limits             |   |  |
| OEL TWA   | 121 mg/m³   |  |
| OEL TWA [ppm]   | 25 ppm  |  |
| Canada (Newfoundland and Labrador) - Occupational Exposure Limits |   |  |
| OEL TWA [ppm]   | 20 ppm  |  |
| Canada (Nova Scotia) - Occupational Exposure Limits               |   |  |
| OEL TWA [ppm]   | 20 ppm  |  |
| Canada (Nunavut) - Occupational Exposure Limits                   |   |  |
| OEL TWA [ppm]   | 20 ppm  |  |
| OEL STEL [ppm]  | 30 ppm  |  |
| Canada (Northwest Territories) - Occupational Exposure Limits     |   |  |
| OEL TWA [ppm]   | 20 ppm  |  |
| OEL STEL [ppm]  | 30 ppm  |  |

| Canada (Ontarlo) - Occupational Exposure Limits         DEL TWA (ppm)       20 ppm         Canada (Prince Edward Island) - Occupational Exposure Limits       Depm         Canada (Saskatchewan) - Occupational Exposure Limits       Depm         Canada (Saskatchewan) - Occupational Exposure Limits       Depm         Canada (Saskatchewan) - Occupational Exposure Limits       Depm         DEL STEL (ppm)       20 ppm         DEL STEL (ppm)       30 ppm         DEL STEL (ppm)       50 ppm         DEL STEL (ppm)       50 ppm         DEL STEL (ppm)       50 ppm         DEL STEL (ppm)       150 ppm         SA - ACGH - Occupational Exposure Limits       Edemains         VCGH + Decupational Exposure Limits       Z0 ppm         CAGH - Occupational Exposure Limits       Z0 ppm         SA - ACGH - Sological Exposure Indices       Z0 ppm         SEI (BLV)       20 ppm (validation Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling time: end of shit:         SIA - ACGH - Biological Exposure Indices       Z0 ppm         SIA + Occupational Exposure Limits       Depm         DSHA PEL (TWA) [2]       50 ppm         JSIA + Decupational Exposure Indices       Si Ppm         SIA + Occupational Exposure Indices       Si ppm         Jand To   | Component 2   |  |  |
|--|---|--|--|
| Canada (Prince Edward Island) - Occupational Exposure Limits           DEL TWA (ppm)         20 ppm           Canada (Saskatchewan) - Occupational Exposure Limits         Del TWA (ppm)         20 ppm           Canada (Yukon) - Occupational Exposure Limits         Del TWA (ppm)         30 ppm           Canada (Yukon) - Occupational Exposure Limits         Del TWA (ppm)         50 ppm           Canada (Yukon) - Occupational Exposure Limits         Too mgm <sup>2</sup> Del TWA (ppm)           DEL TWA (ppm)         50 ppm         Too mgm <sup>2</sup> DEL TWA (ppm)         50 ppm         Del TWA (ppm)           DEL STEL (ppm)         150 ppm         Too mgm <sup>2</sup> DEL TWA (ppm)         20 ppm         Cold Hobita Cocupational Exposure Limits           Star - ACGH - Occupational Exposure Limits         Too mgm <sup>2</sup> Del TWA (ppm)           JSA - ACGH - Occupational Exposure Limits         Too mg/m <sup>2</sup> Depm           Star L Ober, Cocupational Exposure Limits         Too mg/m <sup>2</sup> Depm           Star A CGH - Star Cocupational Exposure Limits         Too mg/m <sup>2</sup> Depm           Star A CGH - Occupational Exposure Limits         Zo omg/m <sup>2</sup> Depm           Star A CGH - Mological Exposure Imdices         Star A CGH - Mological Exposure Imdices         Star A CGH - Mological Exposure Imdices           S   | Canada (Ontario) - Occupational Exposure Limits         |  |  |
| DEL TWA (ppm]       20 ppm         Canada (Saskatchewan) - Occupational Exposure Limits       30 ppm         DEL TWA (ppm]       30 ppm         OEL STEL (ppm)       30 ppm         DEL TWA (ppm]       50 ppm         DEL STEL       720 mg/m²         DEL STEL (ppm]       50 ppm         DEL STEL (ppm]       50 ppm         SCGH OEL TWA (ppm]       20 ppm         A ACGH - Occupational Exposure Limits       Confirmed Animal Carcinogen with Unknown Relevance to Humans         JSA - ACGH - Biological Exposure Indices       Time: end of shift         SCGH OEL TWA (ppm]       20 ppm         ACGH OEL TWA (ppm]       200 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling time: end of shift         JSA - OSHA - Occupational Exposure Limits       Time: end of shift         JSA - OSHA - Occupational Exposure Limits       So ppm         Limit value category (OSHA)       prevent or reduce skin absorption         Limit value category (OSHA)       prevent or reduce skin absorption         Limit value category costuch as neoprene, nitrile, or rub/er equipment         Land protection   | OEL TWA [ppm]   | 20 ppm   |  |
| DEL TWA (ppm]       20 ppm         Canada (Saskatchewan) - Occupational Exposure Limits         DEL TWA (ppm]       30 ppm         DEL STEL (ppm)       30 ppm         DEL TWA (ppm)       50 ppm         DEL STEL       720 mg/m²         DEL STEL (ppm)       150 ppm         JSA - ACGIH - Occupational Exposure Limits       Confirmed Animal Carcinogen with Unknown Relevance to Humans         JSA - ACGIH - Dicoupational Exposure Limits       Confirmed Animal Carcinogen with Unknown Relevance to Humans         JSA - ACGIH - Occupational Exposure Limits       200 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling time: end of shift         JSA - OSHA - Occupational Exposure Limits       240 mg/m²         JSA - OSHA - Occupational Exposure Limits       240 mg/m²         JSA - OSHA - Occupational Exposure Limits       240 mg/m²         JSA - OSHA - Occupational Exposure Limits       240 mg/m²         JSA - OSHA - Occupational Exposure Limits       240 mg/m²         JSA - OSHA - Occupational Exposure Limits       240 mg/m²         JSA - OSHA - Occupational Exposure Limits       240 mg/m²         JSA - Osha   | Canada (Prince Edward Island) - Occupational Exp        | osure Limits   |  |
| DEL TWA (ppm)       20 ppm         DEL STEL (ppm)       30 ppm         Danada (Yukon) - Occupational Exposure Limits       240 mg/m³         DEL TWA       240 mg/m³         DEL TWA (ppm)       50 ppm         DEL TWA (ppm)       50 ppm         DEL STEL (ppm)       150 ppm         JSA - ACGIH - Occupational Exposure Limits       20 ppm         ACGIH obenical category       Confirmed Animal Carcinogen with Unknown Relevance to Humans         JSA - ACGIH - Biological Exposure Indices       200 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling time: end of shift         JSA - Occupational Exposure Limits       200 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling time: end of shift         JSA - Occupational Exposure Limits       240 mg/m³         DSHA PEL (TWA) [1]       240 mg/m³         DSHA PEL (TWA) [2]       50 ppm         JSA - MCGI (Wol/A)       prevent or reduce skin absorption         it.2. Appropriate engineering controls       : Provide adequate general and local exhaust ventilation.         is.3. Individual protection measures/Personal protective equipment       30 mg/g Kreatinin Parameter: Purce category (Parameter: Purce categor | OEL TWA [ppm]   |  |  |
| STEL (ppm)       30 ppm         Canada (Yukon) - Occupational Exposure Limits       240 mg/m³         DEL TWA       240 mg/m³         DEL TWA (ppm)       50 ppm         DEL TWA (ppm)       50 ppm         DEL STEL (ppm)       150 ppm         DSA - ACGIH - Occupational Exposure Limits       XCGIH Occupational Exposure Limits         XCGIH OEL TWA (ppm)       20 ppm         XCGIH Chemical category       Confirmed Animal Carcinogen with Unknown Relevance to Humans         JSA - ACGIH - Biological Exposure Indices       30 ppm         SGI (GLV)       200 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling time: end of shift         JSA - OSHA - Occupational Exposure Limits       200 mg/m²         SGH A PEL (TWA) [1]       240 mg/m²         SGH A PEL (TWA) [2]       50 ppm         JSA + OSHA - Occupational Exposure Limits       50 ppm         SIM and protection genomes in reduce skin absorption       50 ppm  | Canada (Saskatchewan) - Occupational Exposure I         | Limits   |  |
| Canada (Yukon) - Occupational Exposure Limits         DEL TWA       240 mg/m³         DEL TWA (ppm)       50 ppm         DEL STEL       720 mg/m³         DEL STEL (ppm)       150 ppm         JSA - ACGIH - Occupational Exposure Limits       Confirmed Animal Carcinogen with Unknown Relevance to Humans         CGH OLE TWA (ppm)       20 ppm         CGCH Hoenical category       Confirmed Animal Carcinogen with Unknown Relevance to Humans         JSA - ACGIH - Biological Exposure Indices       200 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling the: end of shift         JSA - OSCHA - Occupational Exposure Indices       200 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling the: end of shift         JSA - OSCHA - Occupational Exposure Limits       240 mg/m²         SA - ASCHA - Occupational Exposure Limits       50 ppm         JSA - OSCHA (YAN) [2]       50 ppm         Jarnit value category (OSHA)       prevent or reduce skin absorption         Lamporpriate engineering controls       : Provide adequate general and local exhaust ventilation.         L3. Individual protection measures/Personal protection.  | OEL TWA [ppm]   | 20 ppm   |  |
| DEL TWA       240 mg/m²         DEL TWA (ppm)       50 ppm         DEL STEL       720 mg/m²         DEL STEL (ppm)       150 ppm         JSA - ACGIH - Occupational Exposure Limits       20 ppm         XCGIH OCL TWA (ppm)       20 ppm         ACGIH - Decupational Exposure Limits       Confirmed Animal Carcinogen with Unknown Relevance to Humans         JSA - ACGIH - Biological Exposure Indices       20 omg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling time: end of shift         JSA - OSHA - Occupational Exposure Limits       200 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling time: end of shift         JSA - OSHA - Occupational Exposure Limits       240 mg/m²         SSHA PEL (TWA) [1]       240 mg/m²         DSHA PEL (TWA) [2]       50 ppm         .imit value category (OSHA)       prevent or reduce skin absorption         .i  | OEL STEL [ppm]  | 30 ppm   |  |
| SDE TWA [ppm]       50 pm         DEL STEL       720 mg/m³         DEL STEL [ppm]       150 pm         JSA - ACGIH - Occupational Exposure Limits          ACGIH OEL TWA [ppm]       20 pm         ACGIH chemical category       Confirmed Animal Carcinogen with Unknown Relevance to Humans         JSA - ACGIH - Biological Exposure Indices       300 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling lime: end of shift         JSA - OSHA - Occupational Exposure Limits       200 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling lime: end of shift         JSA + ACGIH - Biological Exposure Limits       200 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling lime: end of shift         JSA + OSHA - Occupational Exposure Limits       240 mg/m³         SSHA PEL (TWA) [1]       240 mg/m³         SSHA PEL (TWA) [2]       50 pm         Limit value category (OSHA)       prevent or reduce skin absorption <b>1.2 Appropriate engineering controls</b> revent or reduce skin absorption <b>1.3. Individual protection measures/Personal protective equipment 1.4.1 dyrotection:</b>  | Canada (Yukon) - Occupational Exposure Limits           |  |  |
| DEL STEL       720 mg/m³         DEL STEL [ppm]       150 ppm         JSA - ACGIH - Occupational Exposure Limits       20 ppm         ACGIH OEL TWA [ppm]       20 ppm         ACGIH - Biological Exposure Indices       Confirmed Animal Carcinogen with Unknown Relevance to Humans         JSA - ACGIH - Biological Exposure Indices       20 0 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling time: end of shift         JSA - OSHA - Occupational Exposure Limits       240 mg/m³         SHA PEL (TWA) [1]       240 mg/m³         SHA PEL (TWA) [2]       50 ppm  | OEL TWA   | 240 mg/m <sup>3</sup>  |  |
| SEL STEL [ppm]       150 pm         USA - ACGIH - Occupational Exposure Limits       20 ppm         ACGIH OEL TWA [ppm]       20 ppm         ACGIH of Laward (a category)       Confirmed Animal Carcinogen with Unknown Relevance to Humans         JSA - ACGIH - Biological Exposure Indices       200 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling time: end of shift         JSA - Occupational Exposure Limits       200 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling time: end of shift         JSA - Occupational Exposure Limits       50 ppm         SHA PEL (TWA) [1]       240 mg/m <sup>a</sup> SHA PEL (TWA) [2]       50 ppm         Limit value category (OSHA)       prevent or reduce skin absorption         L2. Appropriate engineering controls       : Provide adequate general and local exhaust ventilation.         L3. Individual protection measures/Personal protective equipment       4and protection:         Jse Impervious gloves such as neoprene, nitrile, or rubber for hand protection.       5         Eye protection:       5         Shift and body protection:       5         Wear suitable working clothes       5         Respiratory protection:       5   | OEL TWA [ppm]   | 50 ppm   |  |
| JSA - ACGIH - Occupational Exposure Limits         ACGIH - Occupational Exposure Limits         ACGIH - Biological Exposure Indices         3BEI (BLV)       200 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling time: end of shift         JSA - ACGIH - Occupational Exposure Limits       200 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling time: end of shift         JSA - OSHA - Occupational Exposure Limits       240 mg/m³         DSHA PEL (TWA) [1]       240 mg/m³         S0 ppm       prevent or reduce skin absorption        imit value category (OSHA)       prevent or reduce skin absorption        imit value category (OSHA)       prevent or reduce skin absorption        imit value category going such as neoprene, nitrile, or rubber for hand protection.   | OEL STEL  | 720 mg/m³  |  |
| ACGIH OEL TWA [ppm]       20 ppm         ACGIH chemical category       Confirmed Animal Carcinogen with Unknown Relevance to Humans         JSA - ACGIH - Biological Exposure Indices       200 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling time: end of shift         JSA - Occupational Exposure Limits       200 mg/m³         DSHA PEL (TWA) [1]       240 mg/m³         DSHA PEL (TWA) [2]       50 ppm        mit value category (OSHA)       prevent or reduce skin absorption        mit value categoring controls       : Provide adequate general and local exhaust ventilation.         .t.2. Appropriate engineering controls       : Provide adequate general and local exhaust ventilation.         .t.3. Individual protection measures/Personal protective equipment  | OEL STEL [ppm]  | 150 ppm  |  |
| ACGIH chemical category       Confirmed Animal Carcinogen with Unknown Relevance to Humans         JSA - ACGIH - Biological Exposure Indices       200 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling time: end of shift         JSA - OSHA - Occupational Exposure Limits       240 mg/m <sup>3</sup> DSHA PEL (TWA) [1]       240 mg/m <sup>3</sup> DSHA PEL (TWA) [2]       50 ppm        imit value category (OSHA)       prevent or reduce skin absorption <b>2.2. Appropriate engineering controls</b> : Provide adequate general and local exhaust ventilation. <b>8.3. Individual protection measures/Personal protective equipment 4and protection:</b> Stei mpervious gloves such as neoprene, nitrile, or rubber for hand protection.         Eye protection:         Chemical goggles or safety glasses         Skin and body protection:         Wear suitable working clothes  | USA - ACGIH - Occupational Exposure Limits              |  |  |
| JSA - ACGIH - Biological Exposure Indices         SEI (BLV)       200 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling time: end of shift         JSA - OSHA - Occupational Exposure Limits       240 mg/m³         DSHA PEL (TWA) [1]       240 mg/m³         DSHA PEL (TWA) [2]       50 ppm        imit value category (OSHA)       prevent or reduce skin absorption   | ACGIH OEL TWA [ppm]                                     | 20 ppm   |  |
| SEI (BLV)       200 mg/g Kreatinin Parameter: Butoxyacetic acid with hydrolysis - Medium: urine - Sampling time: end of shift         JSA - OSHA - Occupational Exposure Limits       240 mg/m <sup>a</sup> DSHA PEL (TWA) [1]       240 mg/m <sup>a</sup> DSHA PEL (TWA) [2]       50 ppm         Limit value category (OSHA)       prevent or reduce skin absorption         Limit value category (OSHA)       prevent or reduce skin absorption         Limit value category (OSHA)       prevent or reduce skin absorption         Limit value category (OSHA)       prevent or reduce skin absorption         Limit value category (OSHA)       prevent or reduce skin absorption         Limit value category (SHA)       prevent or reduce skin absorption         Limit value category (SHA)       prevent or reduce skin absorption         Limit value category (SHA)       prevent or reduce skin absorption         Limit value category (SHA)       provide adequate general and local exhaust ventilation.         Limit value category (SHA)       provide adequate general and local exhaust ventilation.         Limit value protection measures/Personal protective equipment  | ACGIH chemical category                                 | Confirmed Animal Carcinogen with Unknown Relevance to Humans |  |
| time: end of shift         JJSA - OSHA - Occupational Exposure Limits         DSHA PEL (TWA) [1]       240 mg/m <sup>3</sup> DSHA PEL (TWA) [2]       50 ppm         Limit value category (OSHA)       prevent or reduce skin absorption         Limit value category (OSHA)       prevent or reduce skin absorption         Limit value category (OSHA)       prevent or reduce skin absorption         Limit value category (OSHA)       prevent or reduce skin absorption         Limit value category (OSHA)       prevent or reduce skin absorption         Limit value category (OSHA)       prevent or reduce skin absorption         Limit value category (OSHA)       prevent or reduce skin absorption         Limit value category (OSHA)       prevent or reduce skin absorption         Limit value category (OSHA)       prevent or reduce skin absorption         Limit value category (OSHA)       prevent or reduce skin absorption         Limit value category (OSHA)       prevent or reduce skin absorption         Limit value category (OSHA)       provide adequate general and local exhaust ventilation.         Limit value category (OSHA)       prevent or reduce equipment         Hand protection:  | USA - ACGIH - Biological Exposure Indices               |  |  |
| DSHA PEL (TWA) [1]       240 mg/m³         DSHA PEL (TWA) [2]       50 ppm         Limit value category (OSHA)       prevent or reduce skin absorption         I.2. Appropriate engineering controls       prevent or reduce skin absorption         .2. Appropriate engineering controls       : Provide adequate general and local exhaust ventilation.         .3. Individual protection measures/Personal protective equipment   | BEI (BLV)   |  |  |
| DSHA PEL (TWA) [2] 50 ppm   Linit value category (OSHA) prevent or reduce skin absorption   2. Appropriate engineering controls provide adequate general and local exhaust ventilation.   3. Individual protection measures/Personal protective equipment   Hand protection:   Jae impervious gloves such as neoprene, nitrile, or rubber for hand protection.   Eye protection:   Chemical goggles or safety glasses   Skin and body protection:   Wear suitable working clothes   Respiratory protection:  | USA - OSHA - Occupational Exposure Limits               |  |  |
| Limit value category (OSHA) prevent or reduce skin absorption     Ppropriate engineering controls : Provide adequate general and local exhaust ventilation.     .3. Individual protection measures/Personal protective equipment     Hand protection:     Use impervious gloves such as neoprene, nitrile, or rubber for hand protection.     Eye protection:     Chemical goggles or safety glasses     Skin and body protection:     Wear suitable working clothes     Respiratory protection:   | OSHA PEL (TWA) [1]                                      | 240 mg/m³  |  |
| i.2. Appropriate engineering controls         ppropriate engineering controls       : Provide adequate general and local exhaust ventilation.         i.3. Individual protection measures/Personal protective equipment         Hand protection:         Jse impervious gloves such as neoprene, nitrile, or rubber for hand protection.         Eye protection:         Chemical goggles or safety glasses         Skin and body protection:         Wear suitable working clothes         Respiratory protection:  | OSHA PEL (TWA) [2]                                      | 50 ppm   |  |
| ppropriate engineering controls : Provide adequate general and local exhaust ventilation.  | Limit value category (OSHA)                             | prevent or reduce skin absorption                            |  |
| And protection measures/Personal protective equipment     And protection:     Use impervious gloves such as neoprene, nitrile, or rubber for hand protection.     Eye protection:     Chemical goggles or safety glasses     Skin and body protection:     Wear suitable working clothes     Respiratory protection:   | 8.2. Appropriate engineering controls                   |  |  |
| Hand protection:         Use impervious gloves such as neoprene, nitrile, or rubber for hand protection.         Eye protection:         Chemical goggles or safety glasses         Skin and body protection:         Wear suitable working clothes         Respiratory protection:  | Appropriate engineering controls :                      | Provide adequate general and local exhaust ventilation.      |  |
| Jse impervious gloves such as neoprene, nitrile, or rubber for hand protection.  Eye protection: Chemical goggles or safety glasses Skin and body protection: Near suitable working clothes Respiratory protection:  | 8.3. Individual protection measures/Personal            | protective equipment   |  |
| Eye protection:<br>Chemical goggles or safety glasses<br>Skin and body protection:<br>Wear suitable working clothes<br>Respiratory protection:   | Hand protection:  |  |  |
| Chemical goggles or safety glasses Skin and body protection: Wear suitable working clothes Respiratory protection:   | Use impervious gloves such as neoprene, nitrile, or rul | bber for hand protection.                                    |  |
| Skin and body protection:<br>Wear suitable working clothes<br>Respiratory protection:  | Eye protection:   |  |  |
| Wear suitable working clothes         Respiratory protection:  | Chemical goggles or safety glasses                      |  |  |
| Respiratory protection:  | Skin and body protection:                               |  |  |
|  | Wear suitable working clothes                           |  |  |
| f airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.   | Respiratory protection:                                 |  |  |
|  | If airborne concentrations are above the applicable exp | posure limits, use NIOSH approved respiratory protection.    |  |

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#### **SECTION 9: Physical and chemical properties**

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

| Physical state                                  | : Liguid            |
|---|---------------------|
| Appearance                                      | : Translucent       |
| Odor  | · Semi sweet        |
| Odor threshold                                  | · No data available |
|   |                     |
| pH  | : No data available |
| Relative evaporation rate (butyl acetate=1)     | : No data available |
| Relative evaporation rate (ether=1)             | : No data available |
| Melting point                                   | : No data available |
| Freezing point                                  | : No data available |
| Boiling point                                   | : No data available |
| Flash point                                     | : No data available |
| Auto-ignition temperature                       | : No data available |
| Decomposition temperature                       | : No data available |
| Flammability (solid, gas)                       | : No data available |
| Vapor pressure                                  | : No data available |
| Relative vapor density at 20 °C                 | : No data available |
| Relative density                                | : No data available |
| Solubility                                      | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic                            | : No data available |
| Explosion limits                                | : No data available |

#### 9.2. Other information

No additional information available

| SECTION 10: Stability and reactivity          |  |
|---|--|
| Reactivity<br>Chemical stability              | <ul> <li>Reacts violently with strong oxidizers. Increased risk of fire or explosion.</li> <li>The product is stable at normal handling and storage conditions.</li> </ul> |
| Possibility of hazardous reactions            | : Will not occur.  |
| Conditions to avoid<br>Incompatible materials | : None.<br>: Not determined.   |
| Hazardous decomposition products              | : Not determined.  |

| SECTION 11: Toxicological information      |  |
|--|--|
| 11.1. Information on toxicological effects |  |
| Acute toxicity (dermal) :                  | Not classified<br>Not classified<br>Not classified |
| Component 4                                |  |
| LD50 oral rat                              | 460 mg/kg  |
| LD50 dermal rabbit                         | 415 mg/kg  |
| LC50 Inhalation - Rat [ppm]                | 1250 ppm/4h  |
| Component 1                                |  |
| LD50 oral rat                              | > 90 ml/kg   |

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| Component 3                       |   |  |
|-----------------------------------|---|--|
| LD50 oral rat                     | 7900 mg/kg  |  |
| LD50 dermal rabbit                | > 2000 mg/kg  |  |
| LC50 Inhalation - Rat             | > 2.2 mg/l (Exposure time: 1 h)                                 |  |
| Component 2                       |   |  |
| LD50 oral rat                     | 470 mg/kg   |  |
| LD50 dermal rabbit                | 99 mg/kg  |  |
| LC50 Inhalation - Rat [ppm]       | 486 ppm/4h  |  |
| Skin corrosion/irritation         | Causes skin irritation.   |  |
| Serious eye damage/irritation     | : Causes serious eye irritation.                                |  |
| Respiratory or skin sensitization | : Not classified  |  |
| Germ cell mutagenicity            | : Not classified  |  |
| Carcinogenicity                   | : Not classified  |  |
| Reproductive toxicity             | : Not classified  |  |
| STOT-single exposure              | : Not classified  |  |
| Component 2                       |   |  |
| STOT-single exposure              | May cause respiratory irritation.                               |  |
| STOT-repeated exposure            | Not classified  |  |
| Component 2                       |   |  |
| STOT-repeated exposure            | Causes damage to organs through prolonged or repeated exposure. |  |
| Aspiration hazard                 | Not classified  |  |

#### SECTION 12: Ecological information

| 12.1. Toxicity  |   |  |
|---|---|--|
| Hazardous to the aquatic environment, short-term : Not classified<br>(acute)<br>Hazardous to the aquatic environment, long-term : Not classified<br>(chronic) |   |  |
| Component 4   |   |  |
| LC50 - Fish [1]   | 43.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |  |
| EC50 - Crustacea [1]  | 200 mg/l (Exposure time: 48 h - Species: Daphnia magna)                 |  |
| BCF - Fish [1]  | < 4.9   |  |
| Partition coefficient n-octanol/water (Log Pow)   | 1.45  |  |
| Component 3   |   |  |
| LC50 - Fish [1]   | 5000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])   |  |
| EC50 - Crustacea [1]  | 7600 mg/l (Exposure time: 48 h - Species: Ceriodaphnia dubia)           |  |
| EC50 72h - Algae [1]  | 440 mg/l (Species: Pseudokirchneriella subcapitata)                     |  |
| BCF - Fish [1]  | (no bioaccumulation expected)   |  |
| Component 2   |   |  |
| LC50 - Fish [1]   | 1490 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |  |

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| Component 2                                     |   |  |
|---|---|--|
| LC50 - Fish [2]                                 | 2950 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)  |  |
| EC50 - Crustacea [1]                            | > 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)  |  |
| Partition coefficient n-octanol/water (Log Pow) | 0.81 (at 25 °C)   |  |
| 12.2. Persistence and degradability             |   |  |
| No additional information available             |   |  |
| 12.3. Bioaccumulative potential                 |   |  |
| Component 4                                     |   |  |
| BCF - Fish [1]                                  | < 4.9   |  |
| Partition coefficient n-octanol/water (Log Pow) | 1.45  |  |
| Component 3                                     |   |  |
| BCF - Fish [1]                                  | (no bioaccumulation expected)   |  |
| Component 2                                     |   |  |
| Partition coefficient n-octanol/water (Log Pow) | 0.81 (at 25 °C)   |  |
| 12.4. Mobility in soil                          |   |  |
| Component 4                                     |   |  |
| Partition coefficient n-octanol/water (Log Pow) | 1.45  |  |
| Component 2                                     |   |  |
| Partition coefficient n-octanol/water (Log Pow) | 0.81 (at 25 °C)   |  |
| 12.5. Other adverse effects                     |   |  |
| Ozone :   | Not classified  |  |
| SECTION 42: Dispassi sanaidarationa             | sector and the sector |  |
| SECTION 13: Disposal considerations             |   |  |
| 13.1. Disposal methods                          |   |  |

Product/Packaging disposal recommendations

: Dispose of contents/container in accordance with local/regional/national/international regulations.

#### **SECTION 14: Transport information**

In accordance with TDG / DOT / IMDG / IATA

| 14.1. UN number   |  |  |  |
|---|--|--|--|
| UN-No. (TDG)<br>DOT NA No<br>UN-No. (IMDG)<br>UN-No. (IATA) | <ul> <li>Not regulated</li> <li>Not regulated</li> <li>Not regulated</li> <li>Not regulated</li> </ul> |  |  |
| 14.2. UN proper shipping name                               |  |  |  |
| Proper Shipping Name (TDG)<br>Proper Shipping Name (DOT)    | : Not regulated<br>: Not regulated   |  |  |

| Proper Shipping Name (IMDG)                                 | : Not regulated                                   |
|---|---|
| Proper Shipping Name (IATA)                                 | : Not regulated                                   |
| 14.3. Transport hazard class(es)                            |   |
| Not regulated   |   |
| 14.4. Packing group   |   |
| Not regulated   |   |
| 14.5. Environmental hazards                                 |   |
| Marine pollutant<br>Other information                       | : No<br>: No supplementary information available. |
| 14.6. Special precautions for user                          |   |
| Not applicable  |   |
| 14.7. Transport in bulk according to Annex                  | II of MARPOL 73/78 and the IBC Code               |
| Not applicable  |   |
|   |   |
| SECTION 15: Regulatory information                          |   |
| 15.1. Canada National regulations                           |   |
| Component 4   |   |
| Listed on the Canadian DSL (Domestic Substan                | ices List)  |
| Component 1   |   |
| Listed on the Canadian DSL (Domestic Substan                | ices List)  |
| 0   |   |
| Component 3<br>Listed on the Canadian DSL (Domestic Substan |   |
| Listed on the Ganadian DOL (Domestic Substan                |   |
| Component 2   |   |
| Listed on the Canadian DSL (Domestic Substan                | ices List)  |
| Component 5   |   |
| Listed on the Canadian DSL (Domestic Substan                | ices List)  |
| 15.2. US Federal regulations                                |   |
| Component 4   |   |
| Listed on the United States TSCA (Toxic Substa              | ances Control Act) inventory                      |
| Component 1   |   |
| Listed on the United States TSCA (Toxic Substa              | ances Control Act) inventory                      |

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| Component 3  |                           |  |
|--|---------------------------|--|
| Listed on the United States TSCA (Toxic Substance  | es Control Act) inventory |  |
|  |                           |  |
| Component 2  |                           |  |
| Listed on the United States TSCA (Toxic Substance  | es Control Act) inventory |  |
| Toxic Substance (CEPA – Schedule I)  | Yes                       |  |
|  |                           |  |
| Component 5  |                           |  |
| Listed on the United States TSCA (Toxic Substance  | es Control Act) inventory |  |
| 15.3. US State regulations   |                           |  |
| Component 4  |                           |  |
| U.S Massachusetts - Right To Know List<br>U.S Minnesota - Hazardous Substance List<br>U.S New Jersey - Right to Know Hazardous Substance List<br>U.S Pennsylvania - RTK (Right to Know) List |                           |  |
|  |                           |  |
| Component 3  |                           |  |
| U.S Massachusetts - Right To Know List<br>U.S Minnesota - Hazardous Substance List<br>U.S Pennsylvania - RTK (Right to Know) List  |                           |  |

#### Component 2

- U.S. Massachusetts Right To Know List
- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

#### **SECTION 16: Other information**

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Document Number: SD2101.1