



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 16-Dec-2024

Revision Number 1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Safety data sheet number FG-469A

Product Name Part A:  
FlexFoam-iT!<sup>TM</sup> III,IV,15,17,25  
Simpact 85A  
Task 10 Black/Black Fast,11,13,14,  
KX Flex 90  
Urethane 2906

### Other means of identification

Unique Formula Identifier (UFI) V610-E0C2-500S-A763

Pure substance/mixture Mixture

Contains Methylenediphenyl diisocyanate; Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Polyurethane Elastomer

Uses advised against No information available

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

Smooth-On, Inc, 5600 Lower Macungie Rd, Macungie, PA 18062, USA, Phone: +01.610.252.5800, www.smooth-on.com, sds@smooth-on.com

For further information, please contact

E-mail address sds@smooth-on.com

### 1.4. Emergency telephone number

Emergency Telephone CHEMTEL +01-813-248-0585

| Emergency Telephone - §45 - (EC)1272/2008 |                             |
|---|-----------------------------|
| Europe                                    | 112                         |
| Austria                                   | 01 406 43 43                |
| Belgium                                   | 070 245 245                 |
| Bulgaria                                  | +359 9154 233               |
| Croatia                                   | +385 1 2348 342             |
| Cyprus                                    | 1401                        |
| Czech Republic                            | 224 91 92 93<br>22191 54 02 |
| Denmark                                   | +45 8212 1212               |

|                |   |
|----------------|---|
| Estonia        | 16662   |
| Finland        | Maksuton Puhelu: 0800 147 111<br>Normihinta: +358 9 471 977 |
| France         | +33 01 45 42 59 59  |
| Germany        | 112   |
| Greece         | (0030) 2107793777   |
| Hungary        | +36 80 201 199  |
| Iceland        | +354 543 2222   |
| Ireland        | 01 837 9964<br>01 809 2566                                  |
| Italy          | 06 3054 343   |
| Latvia         | +370 (5) 2362052  |
| Liechtenstein  | 01 406 43 43  |
| Lithuania      | +370 5 236 20 52<br>+370 687 533 78                         |
| Luxembourg     | (+352) 8002 5500  |
| Netherlands    | +31 (0) 88 755 8000   |
| Norway         | 22 59 13 00   |
| Poland         | +48 22 619 66 54  |
| Portugal       | +351 800 250 250  |
| Romania        | +40 21 599 2300   |
| Slovakia       | +421 2 5477 4166  |
| Spain          | +34 91 562 04 20  |
| Sweden         | 112   |
| Switzerland    | 145   |
| United Kingdom | 0344 892 0111   |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

|  |                     |
|--|---------------------|
| Acute toxicity - Inhalation (Dusts/Mists)          | Category 4 - (H332) |
| Skin corrosion/irritation                          | Category 2 - (H315) |
| Serious eye damage/eye irritation                  | Category 2 - (H319) |
| Respiratory sensitization                          | Category 1 - (H334) |
| Skin sensitization                                 | Category 1 - (H317) |
| Carcinogenicity                                    | Category 2 - (H351) |
| Specific target organ toxicity (single exposure)   | Category 3 - (H335) |
| Category 3 Respiratory irritation                  |                     |
| Specific target organ toxicity (repeated exposure) | Category 2 - (H373) |
| Chronic aquatic toxicity                           | Category 4 - (H413) |

### 2.2. Label elements

Contains Methylenediphenyl diisocyanate; Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-



Signal word  
Danger

**Hazard statements**

- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H319 - Causes serious eye irritation.
- H332 - Harmful if inhaled.
- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 - May cause respiratory irritation.
- H351 - Suspected of causing cancer.
- H373 - May cause damage to organs through prolonged or repeated exposure.
- H413 - May cause long lasting harmful effects to aquatic life.

**Precautionary Statements - EU (§28, 1272/2008)**

- P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 - Wash face, hands and any exposed skin thoroughly after handling.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P312 - Call a POISON CENTER or doctor if you feel unwell.
- P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

**Additional information**

This product requires tactile warnings if supplied to the general public.

**2.3. Other hazards**

No information available.

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

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

**3.1. Substances**

Not applicable

**3.2. Mixtures**

| Chemical name   | Weight-% | REACH registration number | EC No (EU Index No)         | Classification according to Regulation (EC) No. 1272/2008 [CLP]   | Specific concentration limit (SCL)  | M-Factor | M-Factor (long-term) |
|---|----------|---------------------------|-----------------------------|---|---|----------|----------------------|
| Methylenediphenyl diisocyanate<br>26447-40-5                          | 40 - 70  | 01-2119457014-47-00<br>43 | 247-714-0<br>(615-005-00-9) | Acute Tox. 4 (H332)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Resp. Sens. 1 (H334)<br>Skin Sens. 1 (H317)<br>Carc. 2 (H351)<br>STOT SE 3 (H335)<br>STOT RE 2 (H373) | Eye Irrit. 2 ::<br>C>=5%<br>Resp. Sens. 1<br>:: C>=0.1%<br>Skin Irrit. 2 ::<br>C>=5%<br>STOT SE 3 ::<br>C>=5% | -        | -                    |
| Benzene,<br>1-isocyanato-2-[(4-isocyanatophenyl)methyl]-<br>5873-54-1 | 1 - 15   | No data available         | 227-534-9<br>(615-005-00-9) | Acute Tox. 4 (H332)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Resp. Sens. 1 (H334)<br>Skin Sens. 1 (H317)<br>Carc. 2 (H351)<br>STOT SE 3 (H335)<br>STOT RE 2 (H373) | Eye Irrit. 2 ::<br>C>=5%<br>Resp. Sens. 1<br>:: C>=0.1%<br>Skin Irrit. 2 ::<br>C>=5%<br>STOT SE 3 ::<br>C>=5% | -        | -                    |
| Triethyl phosphate<br>78-40-0   | 1 - 15   | No data available         | 201-114-5<br>(015-013-00-7) | Acute Tox. 4 (H302)   | -   | -        | -                    |

If "No data available" is reported in the REACH Registration Number column, then the chemical substance is imported in quantities that are below the REACH registration threshold or are otherwise exempt from registration

"Below import reportable quantity threshold or otherwise exempt"

#### **Full text of H- and EUH-phrases: see section 16**

#### Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

| Chemical name   | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapor - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|---|-----------------|-------------------|---|---|--------------------------------------|
| Methylenediphenyl diisocyanate<br>26447-40-5                          | 10000           | 10000             | No data available                           | No data available                       | No data available                    |
| Benzene,<br>1-isocyanato-2-[(4-isocyanatophenyl)methyl]-<br>5873-54-1 | 10000           | 10000             | No data available                           | No data available                       | No data available                    |
| Triethyl phosphate<br>78-40-0   | 1100            | 20000             | 8.817                                       | No data available                       | No data available                    |

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

|   |   |
|---|---|
| <b>General advice</b>                     | Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.   |
| <b>Inhalation</b>                         | May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.   |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.   |
| <b>Skin contact</b>                       | May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water for at least 15 minutes.  |
| <b>Ingestion</b>                          | May produce an allergic reaction. Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.  |
| <b>Self-protection of the first aider</b> | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information. Avoid breathing vapors or mists. |

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

**Symptoms** May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation. Difficulty in breathing.

**Effects of Exposure** May cause damage to organs through prolonged or repeated exposure.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

**Note to physicians** May cause sensitization in susceptible persons. Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

#### **5.2. Special hazards arising from the substance or mixture**

**Specific hazards arising from the chemical** Product is or contains a sensitizer. May cause sensitization by inhalation. May cause sensitization by skin contact.

#### **5.3. Advice for firefighters**

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### **SECTION 6: Accidental release measures**

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

##### **6.1.1- Recommendations for those who intervene directly**

No information available.

##### **6.1.2.- Recommendations for those who do not intervene directly**

No information available.

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

#### **6.2. Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

#### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

#### **Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.

#### **General hygiene considerations**

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

#### **Storage class (TRGS 510)**

Storage class 10.

### 7.3. Specific end use(s)

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

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

### 8.1. Control parameters

#### **Exposure Limits**

| Chemical name   | European Union | Austria  | Belgium | Bulgaria  | Croatia   |
|---|----------------|--|---------|---|---|
| Methylenediphenyl diisocyanate<br>26447-40-5                          | -              | TWA: 0.005 ppm<br>TWA: 0.05 mg/m <sup>3</sup><br>STEL 0.01 ppm<br>STEL 0.1 mg/m <sup>3</sup><br>Sa+<br>Sh+ | -       | TWA: 0.05 mg/m <sup>3</sup><br>STEL: 0.07 mg/m <sup>3</sup> | TWA: 0.02 mg/m <sup>3</sup><br>STEL: 0.07 mg/m <sup>3</sup> |
| Benzene,<br>1-isocyanato-2-[(4-isocyanatophenyl)methyl]-<br>5873-54-1 | -              | TWA: 0.005 ppm<br>TWA: 0.05 mg/m <sup>3</sup><br>STEL 0.01 ppm<br>STEL 0.1 mg/m <sup>3</sup><br>Sa+<br>Sh+ | -       | TWA: 0.05 mg/m <sup>3</sup><br>STEL: 0.07 mg/m <sup>3</sup> | TWA: 0.02 mg/m <sup>3</sup><br>STEL: 0.07 mg/m <sup>3</sup> |
| Chemical name   | Cyprus         | Czech Republic   | Denmark | Estonia   | Finland   |
| Methylenediphenyl diisocyanate<br>26447-40-5                          | -              | -  | -       | TWA: 0.005 ppm<br>STEL: 0.01 ppm<br>S+                      | STEL: 0.035 mg/m <sup>3</sup>                               |

|   |  |                             |   |  |  |
|---|--|-----------------------------|---|--|--|
| Benzene,<br>1-isocyanato-2-[(4-isocyanatophenyl)methyl]-<br>5873-54-1 | -  | -                           | -   | TWA: 0.005 ppm<br>STEL: 0.01 ppm<br>S+   | STEL: 0.035 mg/m <sup>3</sup>  |
| <b>Chemical name</b>  | <b>France</b>  | <b>Germany TRGS</b>         | <b>Germany DFG</b>  | <b>Greece</b>  | <b>Hungary</b>   |
| Methylenediphenyl<br>diisocyanate<br>26447-40-5                       | -  | -                           | -   | TWA: 0.02 ppm<br>TWA: 0.2 mg/m <sup>3</sup><br>STEL: 0.02 ppm<br>STEL: 0.2 mg/m <sup>3</sup> | -  |
| Benzene,<br>1-isocyanato-2-[(4-isocyanatophenyl)methyl]-<br>5873-54-1 | -  | TWA: 0.05 mg/m <sup>3</sup> | -   | TWA: 0.02 ppm<br>TWA: 0.2 mg/m <sup>3</sup><br>STEL: 0.02 ppm<br>STEL: 0.2 mg/m <sup>3</sup> | -  |
| <b>Chemical name</b>  | <b>Ireland</b>   | <b>Italy MDLPS</b>          | <b>Italy AIDII</b>  | <b>Latvia</b>  | <b>Lithuania</b>   |
| Methylenediphenyl<br>diisocyanate<br>26447-40-5                       | TWA: 0.02 mg/m <sup>3</sup><br>STEL: 0.07 mg/m <sup>3</sup><br>Sens+ | -                           | -   | -  | TWA: 0.005 ppm<br>TWA: 0.05 mg/m <sup>3</sup><br>J+<br>Ceiling: 0.01 ppm<br>Ceiling: 0.1 mg/m <sup>3</sup> |
| Benzene,<br>1-isocyanato-2-[(4-isocyanatophenyl)methyl]-<br>5873-54-1 | TWA: 0.02 mg/m <sup>3</sup><br>STEL: 0.07 mg/m <sup>3</sup><br>Sens+ | -                           | -   | -  | TWA: 0.005 ppm<br>TWA: 0.05 mg/m <sup>3</sup><br>J+  |
| <b>Chemical name</b>  | <b>Luxembourg</b>  | <b>Malta</b>                | <b>Netherlands</b>  | <b>Norway</b>  | <b>Poland</b>  |
| Methylenediphenyl<br>diisocyanate<br>26447-40-5                       | -  | -                           | -   | TWA: 0.005 ppm<br>STEL: 0.01 ppm<br>A+   | TWA: 0.03 mg/m <sup>3</sup><br>STEL: 0.09 mg/m <sup>3</sup>  |
| Benzene,<br>1-isocyanato-2-[(4-isocyanatophenyl)methyl]-<br>5873-54-1 | -  | -                           | -   | TWA: 0.005 ppm<br>STEL: 0.01 ppm<br>A+   | TWA: 0.03 mg/m <sup>3</sup><br>STEL: 0.09 mg/m <sup>3</sup>  |
| <b>Chemical name</b>  | <b>Portugal</b>  | <b>Romania</b>              | <b>Slovakia</b>   | <b>Slovenia</b>  | <b>Spain</b>   |
| Benzene,<br>1-isocyanato-2-[(4-isocyanatophenyl)methyl]-<br>5873-54-1 | -  | -                           | -   | TWA: 0.05 mg/m <sup>3</sup><br>STEL: 0.05 mg/m <sup>3</sup>                                  | -  |
| <b>Chemical name</b>  | <b>Sweden</b>  |                             | <b>Switzerland</b>  |  | <b>United Kingdom</b>  |
| Methylenediphenyl diisocyanate<br>26447-40-5                          | :<br>NGV: 0.002 ppm<br>S+  |                             | TWA: 0.02 mg/m <sup>3</sup><br>STEL: 0.02 mg/m <sup>3</sup><br>S+ |  | TWA: 0.02 mg/m <sup>3</sup><br>STEL: 0.07 mg/m <sup>3</sup><br>Sen+  |
| Benzene,<br>1-isocyanato-2-[(4-isocyanatophenyl)methyl]-<br>5873-54-1 | :<br>NGV: 0.002 ppm<br>S+  |                             | TWA: 0.02 mg/m <sup>3</sup><br>STEL: 0.02 mg/m <sup>3</sup><br>S+ |  | TWA: 0.02 mg/m <sup>3</sup><br>STEL: 0.07 mg/m <sup>3</sup><br>Sen+  |

**Biological occupational exposure limits**

|   |                       |  |                 |                |                       |
|---|-----------------------|--|-----------------|----------------|-----------------------|
| <b>Chemical name</b>                            | <b>European Union</b> | <b>Austria</b>   | <b>Bulgaria</b> | <b>Croatia</b> | <b>Czech Republic</b> |
| Methylenediphenyl<br>diisocyanate<br>26447-40-5 | -                     | Check<br>10 µg/g Creatinine<br>(urine -<br>4,4'-Diaminodiphenylmethane after end<br>of work day, at the<br>end of a work<br>week/end of the<br>shift)<br>( - ) | -               | -              | -                     |

|   |                 |  |                    |  |   |
|---|-----------------|--|--------------------|--|---|
| Benzene,<br>1-isocyanato-2-[(4-isocyanatophenyl)methyl]-<br>5873-54-1 | -               | Check<br>10 µg/g Creatinine<br>(urine -<br>4,4'-Diaminodiphenylmethane after end<br>of work day, at the<br>end of a work<br>week/end of the<br>shift)<br>( - ) | -                  | -  | - |
| Triethyl phosphate<br>78-40-0   | -               | Check<br>(blood -<br>Pseudocholinesterase after end of work<br>day, at the end of a<br>work week)  | -                  | -  | - |
| <b>Chemical name</b>  | <b>Hungary</b>  | <b>Ireland</b>   | <b>Italy MDLPS</b> | <b>Italy AIDII</b>   |   |
| Methylenediphenyl diisocyanate<br>26447-40-5                          | -               | 1 µmol/mol Creatinine<br>(urine - urinary Diamine<br>post task)  | -                  | -  |   |
| Benzene,<br>1-isocyanato-2-[(4-isocyanatophenyl)methyl]-<br>5873-54-1 | -               | 1 µmol/mol Creatinine<br>(urine - urinary Diamine<br>post task)  | -                  | -  |   |
| <b>Chemical name</b>  | <b>Slovenia</b> | <b>Spain</b>   | <b>Switzerland</b> | <b>United Kingdom</b>  |   |
| Methylenediphenyl diisocyanate<br>26447-40-5                          | -               | -  | -                  | 1 mmol<br>isocyanate-derived<br>diamine/mol creatinine -<br>( ) - end of the period of<br>exposure |   |

**Derived No Effect Level (DNEL) - Workers**

| Chemical name   | Oral | Dermal                 | Inhalation  |
|---|------|------------------------|---|
| Benzene,<br>1-isocyanato-2-[(4-isocyanatophenyl)methyl]-<br>5873-54-1 | -    | -                      | 0.05 mg/m <sup>3</sup> [5] [6]<br>0.1 mg/m <sup>3</sup> [5] [7] |
| Triethyl phosphate<br>78-40-0   | -    | 2 mg/kg bw/day [4] [6] | 9.9 mg/m <sup>3</sup> [4] [6]                                   |

**Notes**

- [4] Systemic health effects.  
 [5] Local health effects.  
 [6] Long term.  
 [7] Short term.

**Derived No Effect Level (DNEL) - General Public**

| Chemical name   | Oral   | Dermal | Inhalation  |
|---|--|--------|---|
| Benzene,<br>1-isocyanato-2-[(4-isocyanatophenyl)methyl]-<br>5873-54-1 | -  | -      | 0.025 mg/m <sup>3</sup> [5] [6]<br>0.05 mg/m <sup>3</sup> [5] [7] |
| Triethyl phosphate<br>78-40-0   | 1 mg/kg bw/day [4] [6]<br>5 mg/kg bw/day [4] [7] | -      | 1.74 mg/m <sup>3</sup> [4] [6]                                    |



**Notes**

- [4] Systemic health effects.
- [5] Local health effects.
- [6] Long term.
- [7] Short term.

**Predicted No Effect Concentration (PNEC)**

| Chemical name  | Freshwater | Freshwater (intermittent release) | Marine water | Marine water (intermittent release) | Air |
|--|------------|-----------------------------------|--------------|-------------------------------------|-----|
| Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-5873-54-1 | 1 mg/L     | 10 mg/L                           | 0.1 mg/L     | -                                   | -   |
| Triethyl phosphate 78-40-0                                     | 0.632 mg/L | 9 mg/L                            | 0.0632 mg/L  | -                                   | -   |

| Chemical name  | Freshwater sediment | Marine sediment       | Sewage treatment | Soil               | Food chain |
|--|---------------------|-----------------------|------------------|--------------------|------------|
| Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-5873-54-1 | -                   | -                     | 1 mg/L           | 1 mg/kg soil dw    | -          |
| Triethyl phosphate 78-40-0                                     | 5 mg/kg sediment dw | 0.5 mg/kg sediment dw | 298.5 mg/L       | 0.64 mg/kg soil dw | -          |

**8.2. Exposure controls**

- Engineering controls** No information available.
- Personal protective equipment**
- Eye/face protection** Wear safety glasses with side shields (or goggles).
- Hand protection** Wear suitable gloves. Impervious gloves.
- Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.
- Respiratory protection** Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
- General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product.
- Environmental exposure controls** No information available.

**SECTION 9: Physical and chemical properties**

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

|                       |                          |
|-----------------------|--------------------------|
| <b>Physical state</b> | Liquid                   |
| <b>Appearance</b>     | Amber Liquid             |
| <b>Color</b>          | Amber                    |
| <b>Odor</b>           | Musty.                   |
| <b>Odor threshold</b> | No information available |

| <b>Property</b>                                | <b>Values</b>                       | <b>Remarks • Method</b> |
|--|-------------------------------------|-------------------------|
| <b>Melting point / freezing point</b>          | 2.77 °C / 37 °F                     | None known              |
| <b>Initial boiling point and boiling range</b> | > 148.889°C (300°F)                 | None known              |
| <b>Flammability</b>                            | No data available                   | None known              |
| <b>Flammability Limit in Air</b>               |                                     | None known              |
| <b>Upper flammability or explosive limits</b>  | No data available                   |                         |
| <b>Lower flammability or explosive limits</b>  | No data available                   |                         |
| <b>Flash point</b>                             | > 148.889 °C / 300 °F               | None known              |
| <b>Autoignition temperature</b>                | No data available                   | None known              |
| <b>Decomposition temperature</b>               |                                     | None known              |
| <b>pH</b>                                      | No data available                   | None known              |
| <b>pH (as aqueous solution)</b>                | No data available                   | None known              |
| <b>Kinematic viscosity</b>                     | No data available                   | None known              |
| <b>Dynamic viscosity</b>                       | 30 - 100 cPs                        | None known              |
| <b>Water solubility</b>                        | Insoluble in water                  | None known              |
| <b>Solubility(ies)</b>                         | No data available                   | None known              |
| <b>Partition coefficient</b>                   | No data available                   | None known              |
| <b>Vapor pressure</b>                          | < 0.00016 mmHg @20 °C (kPa) (68 °F) | None known              |
| <b>Relative density</b>                        | No data available                   | None known              |
| <b>Bulk density</b>                            | No data available                   |                         |
| <b>Liquid Density</b>                          | No data available                   |                         |
| <b>Relative vapor density</b>                  | >1                                  | None known              |
| <b>Particle characteristics</b>                |                                     |                         |
| <b>Particle Size</b>                           | No information available            |                         |
| <b>Particle Size Distribution</b>              | No information available            |                         |

**9.2. Other information**

9.2.1. Information with regard to physical hazard classes  
Not applicable

9.2.2. Other safety characteristics  
No information available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

**Reactivity** No information available.

**10.2. Chemical stability**

**Stability** Stable under normal conditions.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** None under normal processing.

#### 10.4. Conditions to avoid

**Conditions to avoid** Excessive heat.

#### 10.5. Incompatible materials

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** None known based on information supplied.

## **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Information on likely routes of exposure

##### **Product Information**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. May cause sensitization in susceptible persons. (based on components). May cause irritation of respiratory tract. Harmful by inhalation.  |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.   |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May cause sensitization by skin contact. Causes skin irritation. |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.  |

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

**Acute toxicity** Harmful by inhalation.

#### **Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

|                                      |                 |
|--------------------------------------|-----------------|
| <b>ATEmix (oral)</b>                 | 8,270.20 mg/kg  |
| <b>ATEmix (dermal)</b>               | 10,131.00 mg/kg |
| <b>ATEmix (inhalation-dust/mist)</b> | 1.533 mg/l      |

#### **Component Information**

| Chemical name                  | Oral LD50             | Dermal LD50              | Inhalation LC50                     |
|--------------------------------|-----------------------|--------------------------|-------------------------------------|
| Methylenediphenyl diisocyanate | > 10000 mg/kg ( Rat ) | > 10000 mg/kg ( Rabbit ) | = 490 mg/m <sup>3</sup> ( Rat ) 4 h |
| Benzene,                       | > 10000 mg/kg ( Rat ) | > 10000 mg/kg ( Rabbit ) | = 490 mg/m <sup>3</sup> ( Rat ) 4 h |

|  |                           |                      |                                      |
|--|---------------------------|----------------------|--------------------------------------|
| 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- |                           |                      |                                      |
| Triethyl phosphate                           | 1100 - 1600 mg/kg ( Rat ) | > 20 g/kg ( Rabbit ) | > 8817 mg/m <sup>3</sup> ( Rat ) 4 h |

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|  |  |
|--|--|
| <b>Skin corrosion/irritation</b>         | Classification based on data available for ingredients. Causes skin irritation.  |
| <b>Serious eye damage/eye irritation</b> | Classification based on data available for ingredients. Causes serious eye irritation.   |
| <b>Respiratory or skin sensitization</b> | May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.                |
| <b>Germ cell mutagenicity</b>            | No information available.  |
| <b>Carcinogenicity</b>                   | Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer. |

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name   | European Union |
|---|----------------|
| Methylenediphenyl diisocyanate                        | Carc. 2        |
| Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- | Carc. 2        |

|                                 |  |
|---------------------------------|--|
| <b>Reproductive toxicity</b>    | No information available.  |
| <b>STOT - single exposure</b>   | May cause respiratory irritation.                                  |
| <b>STOT - repeated exposure</b> | May cause damage to organs through prolonged or repeated exposure. |
| <b>Aspiration hazard</b>        | No information available.  |

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

#### 11.2.2. Other information

**Other adverse effects** No information available.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

**Ecotoxicity** May cause long lasting harmful effects to aquatic life.

**12.2. Persistence and degradability**

**Persistence and degradability** No information available.

**12.3. Bioaccumulative potential****Bioaccumulation****Component Information**

| Chemical name   | Partition coefficient |
|---|-----------------------|
| Methylenediphenyl diisocyanate                        | 4.5                   |
| Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- | 4.5                   |
| Triethyl phosphate                                    | 1.11                  |

**12.4. Mobility in soil**

**Mobility in soil** No information available.

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

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

| Chemical name   | PBT and vPvB assessment         |
|---|---------------------------------|
| Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- | The substance is not PBT / vPvB |
| Triethyl phosphate                                    | The substance is not PBT / vPvB |

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**SECTION 14: Transport information****IATA**

|                                   |                |
|-----------------------------------|----------------|
| 14.1 UN number or ID number       | Not regulated  |
| 14.2 UN proper shipping name      | Not regulated  |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

**IMDG**

|                             |               |
|-----------------------------|---------------|
| 14.1 UN number or ID number | Not regulated |
|-----------------------------|---------------|

|  |                          |
|--|--------------------------|
| 14.2 UN proper shipping name                                 | Not regulated            |
| 14.3 Transport hazard class(es)                              | Not regulated            |
| 14.4 Packing group   | Not regulated            |
| 14.5 Environmental hazards                                   | Not applicable           |
| 14.6 Special precautions for user                            |                          |
| Special Provisions   | None                     |
| 14.7 Maritime transport in bulk according to IMO instruments | No information available |

**RID**

|                                   |                |
|-----------------------------------|----------------|
| 14.1 UN number or ID number       | Not regulated  |
| 14.2 UN proper shipping name      | Not regulated  |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

**ADR**

|                                   |                |
|-----------------------------------|----------------|
| 14.1 UN number or ID number       | Not regulated  |
| 14.2 UN proper shipping name      | Not regulated  |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****France****Occupational Illnesses (R-463-3, France)**

| Chemical name   | French RG number |
|---|------------------|
| Methylenediphenyl diisocyanate - 26447-40-5                       | RG 62            |
| Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- - 5873-54-1 | RG 62            |

**Germany****TA Luft (German Air Pollution Control Regulation)**

| Chemical name  | Number | Class   |
|--|--------|---------|
| Benzene,<br>1-isocyanato-2-[(4-isocyanatophenyl)methyl]- | 5.2.5  | Class I |

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorizations and/or restrictions on use:**

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

| Chemical name | Restricted substance per REACH | Substance subject to authorization per |
|---------------|--------------------------------|--|
|               |                                |  |

|   | Annex XVII  | REACH Annex XIV |
|---|-------------|-----------------|
| Methylenediphenyl diisocyanate - 26447-40-5                             | 56<br>75    | -               |
| Benzene,<br>1-isocyanato-2-[(4-isocyanatophenyl)methyl]- -<br>5873-54-1 | 56[b]<br>75 | -               |

**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**International Inventories**

|                      |  |
|----------------------|--|
| <b>TSCA</b>          | Contact supplier for inventory compliance status |
| <b>DSL/NDSL</b>      | Contact supplier for inventory compliance status |
| <b>EINECS/ELINCS</b> | Contact supplier for inventory compliance status |
| <b>ENCS</b>          | Contact supplier for inventory compliance status |
| <b>IECSC</b>         | Contact supplier for inventory compliance status |
| <b>KECI</b>          | Contact supplier for inventory compliance status |
| <b>PICCS</b>         | Contact supplier for inventory compliance status |
| <b>AIIC</b>          | Contact supplier for inventory compliance status |
| <b>NZIoC</b>         | Contact supplier for inventory compliance status |

**Legend:**

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AIIC** - Australian Inventory of Industrial Chemicals  
**NZIoC** - New Zealand Inventory of Chemicals

**15.2. Chemical safety assessment****Chemical Safety Report** No information available**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

- H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H335 - May cause respiratory irritation

H351 - Suspected of causing cancer  
 H373 - May cause damage to organs through prolonged or repeated exposure

**Legend**

SVHC: Substances of Very High Concern for Authorization:  
 PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances  
 vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances  
 STOT: Specific Target Organ Toxicity  
 ATE: Acute Toxicity Estimate  
 LC50: 50% Lethal Concentration  
 LD50: 50% Lethal Dose

**Legend Section 8: Exposure controls/personal protection**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | Sk*  | Skin designation                 |
| +       | Sensitizers                 |      |                                  |

| Classification procedure  |                    |
|---|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used        |
| Acute oral toxicity   | Calculation method |
| Acute dermal toxicity   | Calculation method |
| Acute inhalation toxicity - gas                                 | Calculation method |
| Acute inhalation toxicity - vapor                               | Calculation method |
| Acute inhalation toxicity - dust/mist                           | Calculation method |
| Skin corrosion/irritation                                       | Calculation method |
| Serious eye damage/eye irritation                               | Calculation method |
| Respiratory sensitization                                       | Calculation method |
| Skin sensitization  | Calculation method |
| Mutagenicity  | Calculation method |
| Carcinogenicity   | Calculation method |
| Reproductive toxicity   | Calculation method |
| STOT - single exposure  | Calculation method |
| STOT - repeated exposure  | Calculation method |
| Acute aquatic toxicity  | Calculation method |
| Chronic aquatic toxicity  | Calculation method |
| Aspiration hazard   | Calculation method |
| Ozone   | Calculation method |

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
 European Chemicals Agency (ECHA) (ECHA\_API)  
 Environmental Protection Agency  
 Acute Exposure Guideline Level(s) (AEGl(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 National Institute of Technology and Evaluation (NITE)  
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 U.S. National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications



Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

Revision date 16-Dec-2024

**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)**

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 29-Jan-2025

Revision Number 1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Safety data sheet number FG-399B

Product Name Part B:  
Foam-It! 4, 5, 8, 26  
Task 13, 14

### Other means of identification

Pure substance/mixture Mixture

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Polyurethane Elastomer

Uses advised against

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

Smooth-On, Inc, 5600 Lower Macungie Rd, Macungie, PA 18062, USA, Phone: +01.610.252.5800, www.smooth-on.com, sds@smooth-on.com

For further information, please contact

E-mail address sds@smooth-on.com

### 1.4. Emergency telephone number

Emergency Telephone CHEMTEL +01-813-248-0585

| Emergency Telephone - §45 - (EC)1272/2008 |   |
|---|---|
| Europe                                    | 112   |
| Austria                                   | 01 406 43 43  |
| Belgium                                   | 070 245 245   |
| Bulgaria                                  | +359 9154 233   |
| Croatia                                   | +385 1 2348 342   |
| Cyprus                                    | 1401  |
| Czech Republic                            | 224 91 92 93<br>22191 54 02                                 |
| Denmark                                   | +45 8212 1212   |
| Estonia                                   | 16662   |
| Finland                                   | Maksuton Puhelu: 0800 147 111<br>Normihinta: +358 9 471 977 |
| France                                    | +33 01 45 42 59 59  |
| Germany                                   | 112   |
| Greece                                    | (0030) 2107793777   |
| Hungary                                   | +36 80 201 199  |

|                |                                     |
|----------------|-------------------------------------|
| Iceland        | +354 543 2222                       |
| Ireland        | 01 837 9964<br>01 809 2566          |
| Italy          | 06 3054 343                         |
| Latvia         | +370 (5) 2362052                    |
| Liechtenstein  | 01 406 43 43                        |
| Lithuania      | +370 5 236 20 52<br>+370 687 533 78 |
| Luxembourg     | (+352) 8002 5500                    |
| Netherlands    | +31 (0) 88 755 8000                 |
| Norway         | 22 59 13 00                         |
| Poland         | +48 22 619 66 54                    |
| Portugal       | +351 800 250 250                    |
| Romania        | +40 21 599 2300                     |
| Slovakia       | +421 2 5477 4166                    |
| Spain          | +34 91 562 04 20                    |
| Sweden         | 112                                 |
| Switzerland    | 145                                 |
| United Kingdom | 0344 892 0111                       |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

### 2.3. Other hazards

No information available.

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

The product contains no substances which at their given concentration, are considered to be hazardous to health

### Full text of H- and EUH-phrases: see section 16

#### Acute Toxicity Estimate

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

**SECTION 4: First aid measures****4.1. Description of first aid measures**

|              |  |
|--------------|--|
| Inhalation   | Remove to fresh air.   |
| Eye contact  | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| Skin contact | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.                 |
| Ingestion    | Rinse mouth.   |

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

|                     |                           |
|---------------------|---------------------------|
| Symptoms            | No information available. |
| Effects of Exposure | No information available. |

**4.3. Indication of any immediate medical attention and special treatment needed**

|                    |                        |
|--------------------|------------------------|
| Note to physicians | Treat symptomatically. |
|--------------------|------------------------|

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

|                                |   |
|--------------------------------|---|
| Suitable Extinguishing Media   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Large Fire                     | CAUTION: Use of water spray when fighting fire may be inefficient.                                      |
| Unsuitable extinguishing media | Do not scatter spilled material with high pressure water streams.                                       |

**5.2. Special hazards arising from the substance or mixture**

|  |                           |
|--|---------------------------|
| Specific hazards arising from the chemical | No information available. |
|--|---------------------------|

**5.3. Advice for firefighters**

|  |  |
|--|--|
| Special protective equipment and precautions for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |
|--|--|

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

**6.1.1- Recommendations for those who intervene directly**  
No information available.

**6.1.2.- Recommendations for those who do not intervene directly**

No information available.

**Personal precautions** Ensure adequate ventilation.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

### 7.3. Specific end use(s)

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

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

### 8.1. Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Biological occupational exposure limits** This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL) - Workers** No information available

**Derived No Effect Level (DNEL) - General Public** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls**

**Engineering controls** No information available.

**Personal protective equipment**

**Eye/face protection** Appropriate eye/face protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

**Hand protection** Appropriate hand protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

**Skin and body protection** Appropriate skin and body protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

**Respiratory protection** Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** No information available.

**SECTION 9: Physical and chemical properties**

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

|                       |                          |
|-----------------------|--------------------------|
| <b>Physical state</b> | Liquid                   |
| <b>Appearance</b>     |                          |
| <b>Color</b>          | black                    |
| <b>Odor</b>           | Mild.                    |
| <b>Odor threshold</b> | No information available |

| <u>Property</u>                                | <u>Values</u>      | <u>Remarks • Method</u> |
|--|--------------------|-------------------------|
| <b>Melting point / freezing point</b>          | No data available  | None known              |
| <b>Initial boiling point and boiling range</b> | No data available  | None known              |
| <b>Flammability</b>                            | No data available  | None known              |
| <b>Flammability Limit in Air</b>               |                    | None known              |
| <b>Upper flammability or explosive limits</b>  | No data available  |                         |
| <b>Lower flammability or explosive limits</b>  | No data available  |                         |
| <b>Flash point</b>                             | > 148.889 °C       | None known              |
| <b>Autoignition temperature</b>                | No data available  | None known              |
| <b>Decomposition temperature</b>               |                    | None known              |
| <b>pH</b>                                      | No data available  | None known              |
| <b>pH (as aqueous solution)</b>                | No data available  | None known              |
| <b>Kinematic viscosity</b>                     | No data available  | None known              |
| <b>Dynamic viscosity</b>                       | No data available  | None known              |
| <b>Water solubility</b>                        | Insoluble in water | None known              |
| <b>Solubility(ies)</b>                         | No data available  | None known              |

|                            |                          |            |
|----------------------------|--------------------------|------------|
| Partition coefficient      | No data available        | None known |
| Vapor pressure             | No data available        | None known |
| Relative density           | 1.20                     | None known |
| Bulk density               | No data available        |            |
| Liquid Density             | No data available        |            |
| Relative vapor density     | > 1.0                    | None known |
| Particle characteristics   |                          |            |
| Particle Size              | No information available |            |
| Particle Size Distribution | No information available |            |

## 9.2. Other information

9.2.1. Information with regard to physical hazard classes  
Not applicable

9.2.2. Other safety characteristics  
No information available

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Reactivity No information available.

### 10.2. Chemical stability

Stability Stable under normal conditions.

#### Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

### 10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

### 10.5. Incompatible materials

Incompatible materials None known based on information supplied.

### 10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

## **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Information on likely routes of exposure

##### Product Information

##### Inhalation

Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

|                     |  |
|---------------------|--|
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Contact with eyes may cause irritation.        |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. No known effect based on information supplied. |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. May be harmful if swallowed.                   |

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Acute toxicity****Numerical measures of toxicity**

No information available

The following values are calculated based on chapter 3.1 of the GHS document

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|  |   |
|--|---|
| <b>Skin corrosion/irritation</b>         | Classification based on data available for ingredients. No information available. |
| <b>Serious eye damage/eye irritation</b> | Classification based on data available for ingredients. No information available. |
| <b>Respiratory or skin sensitization</b> | Classification based on data available for ingredients. No information available. |
| <b>Germ cell mutagenicity</b>            | No information available.   |
| <b>Carcinogenicity</b>                   | No information available.   |
| <b>Reproductive toxicity</b>             | No information available.   |
| <b>STOT - single exposure</b>            | No information available.   |
| <b>STOT - repeated exposure</b>          | No information available.   |
| <b>Aspiration hazard</b>                 | No information available.   |

**11.2. Information on other hazards****11.2.1. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

**11.2.2. Other information**

**Other adverse effects** No information available.



## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

### 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

### 12.4. Mobility in soil

**Mobility in soil** No information available.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## SECTION 14: Transport information

### IATA

|                                   |                |
|-----------------------------------|----------------|
| 14.1 UN number or ID number       | Not regulated  |
| 14.2 UN proper shipping name      | Not regulated  |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

### IMDG

|                             |               |
|-----------------------------|---------------|
| 14.1 UN number or ID number | Not regulated |
|-----------------------------|---------------|

|  |                          |
|--|--------------------------|
| 14.2 UN proper shipping name                                 | Not regulated            |
| 14.3 Transport hazard class(es)                              | Not regulated            |
| 14.4 Packing group   | Not regulated            |
| 14.5 Environmental hazards                                   | Not applicable           |
| 14.6 Special precautions for user                            |                          |
| Special Provisions   | None                     |
| 14.7 Maritime transport in bulk according to IMO instruments | No information available |

**RID**

|                                   |                |
|-----------------------------------|----------------|
| 14.1 UN number or ID number       | Not regulated  |
| 14.2 UN proper shipping name      | Not regulated  |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

**ADR**

|                                   |                |
|-----------------------------------|----------------|
| 14.1 UN number or ID number       | Not regulated  |
| 14.2 UN proper shipping name      | Not regulated  |
| 14.3 Transport hazard class(es)   | Not regulated  |
| 14.4 Packing group                | Not regulated  |
| 14.5 Environmental hazards        | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorizations and/or restrictions on use:**

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**International Inventories**

|                      |  |
|----------------------|--|
| <b>TSCA</b>          | Contact supplier for inventory compliance status |
| <b>DSL/NDL</b>       | Contact supplier for inventory compliance status |
| <b>EINECS/ELINCS</b> | Contact supplier for inventory compliance status |
| <b>ENCS</b>          | Contact supplier for inventory compliance status |
| <b>IECSC</b>         | Contact supplier for inventory compliance status |
| <b>KECI</b>          | Contact supplier for inventory compliance status |
| <b>PICCS</b>         | Contact supplier for inventory compliance status |
| <b>AIIC</b>          | Contact supplier for inventory compliance status |
| <b>NZIoC</b>         | Contact supplier for inventory compliance status |

**Legend:**

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AIIC** - Australian Inventory of Industrial Chemicals
- NZIoC** - New Zealand Inventory of Chemicals

**15.2. Chemical safety assessment**

**Chemical Safety Report** No information available

**SECTION 16: Other information**

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Legend**

- SVHC: Substances of Very High Concern for Authorization:
- PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
- vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances
- STOT: Specific Target Organ Toxicity
- ATE: Acute Toxicity Estimate
- LC50: 50% Lethal Concentration
- LD50: 50% Lethal Dose

**Legend Section 8: Exposure controls/personal protection**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | Sk*  | Skin designation                 |
| +       | Sensitizers                 |      |                                  |

| Classification procedure  |                    |
|---|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used        |
| Acute oral toxicity   | Calculation method |
| Acute dermal toxicity   | Calculation method |
| Acute inhalation toxicity - gas                                 | Calculation method |
| Acute inhalation toxicity - vapor                               | Calculation method |
| Acute inhalation toxicity - dust/mist                           | Calculation method |
| Skin corrosion/irritation                                       | Calculation method |
| Serious eye damage/eye irritation                               | Calculation method |
| Respiratory sensitization                                       | Calculation method |
| Skin sensitization  | Calculation method |
| Mutagenicity  | Calculation method |
| Carcinogenicity   | Calculation method |
| Reproductive toxicity   | Calculation method |

|                          |                    |
|--------------------------|--------------------|
| STOT - single exposure   | Calculation method |
| STOT - repeated exposure | Calculation method |
| Acute aquatic toxicity   | Calculation method |
| Chronic aquatic toxicity | Calculation method |
| Aspiration hazard        | Calculation method |
| Ozone                    | Calculation method |

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
 European Chemicals Agency (ECHA) (ECHA\_API)  
 Environmental Protection Agency  
 Acute Exposure Guideline Level(s) (AEGl(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 National Institute of Technology and Evaluation (NITE)  
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 U.S. National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

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#### Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

##### Disclaimer

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**End of Safety Data Sheet**