# 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** 02-Jul-2026 **Revision Number** 1

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

### 1.1. Product identifier

**Safety data sheet number** FG-110A

**Product Name** Part A: Brush-On 35

**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

**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 |

| | |
|---|---|
| | 01 809 2566 |
| **Italy** | 06 3054 343<br>10 Italian Poison Centres:<br>Rome +39 06-68593726 / +30 06-49978000 / +39 06-3054343, Foggia +39 800183459, Naples +39 081-5453333, Florenze +39 055-7947819, Pavia +39 0382-24444, Milan +39 02-66101029, Bergamo +39 80088300, Verona +39 800011858 |
| **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]***

| | |
|---|---|
| **Hazardous to the aquatic environment - chronic** | Category 3 - (H412) |

### 2.2. Label elements

**Hazard statements**
H412 - Harmful to aquatic life with long lasting effects.
EUH208 - Contains m-Phenylenediamine May produce an allergic reaction.

**Precautionary Statements - EU (§28, 1272/2008)**
P273 - Avoid release to the environment.
P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

**Additional information**
This product requires tactile warnings if supplied to the general public. This product requires child resistant fastenings if supplied to the general public.

### 2.3. Other hazards

Harmful to aquatic life.

**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

Hazardous

| Chemical name | Weight-% | REACH registration number | EC No. (Index No.) | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) | Notes |
|---|---|---|---|---|---|---|---|---|
| m-Phenylenediamine 108-45-2 | 0.1-1 | No data available | 203-584-7 (612-147-00-3) | Acute Tox. 3 (H301) Acute Tox. 3 (H311) Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Acute Tox. 3 (H331) Muta. 2 (H341) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) | - | - | - | - |
| Dibutyltin dilaurate 77-58-7 | 0.1-1 | Below import reportable quantity threshold or otherwise exempt | 201-039-8 (050-030-00-3) | Muta. 2 (H341) Repr. 1B (H360FD) STOT RE 1 (H372) | - | - | - | - |

**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 |
|---|---|---|---|---|---|
| m-Phenylenediamine 108-45-2 | 204 | 1100 | 3.2 | No data available | No data available |
| Dibutyltin dilaurate 77-58-7 | 45 | 2002 | No data available | No data available | No data available |

This product does not contain candidate substances of very high concern at a concentration >=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.

**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 |
|---|---|---|---|---|---|
| m-Phenylenediamine<br>108-45-2 | - | Sk<br>DS | TWA: 0.1 mg/m³; | - | - |
| Dibutyltin dilaurate<br>77-58-7 | - | TWA-TMW: 0.1 mg/m³; inhalable fraction<br>STEL-KZGW: 0.2 mg/m³ (4 X 15 min); inhalable fraction<br>STEL-KZGW: 0.008 ppm (4 X 15 min);<br>STEL-KZGW: 0.2 mg/m³ (4 X 15 min);<br>Sk | TWA: 0.1 mg/m³;<br>STEL: 0.2 mg/m³;<br>Sd | TWA: 0.1 mg/m³; | TWA-GVI: 0.1 mg/m³;<br>STEL-KGVI: 0.2 mg/m³; |

| Chemical name | Cyprus | Czech Republic | Denmark | Estonia | Finland |
|---|---|---|---|---|---|
| m-Phenylenediamine<br>108-45-2 | - | - | TWA: 0.1 mg/m³;<br>STEL: 0.2 mg/m³; | - | - |

| | | | | | |
|---|---|---|---|---|---|
| Dibutyltin dilaurate<br>77-58-7 | - | TWA: 0.1 mg/m³;<br>Ceiling: 0.2 mg/m³;<br>pSk | TWA: 0.1 mg/m³;<br>STEL: 0.2 mg/m³;<br>pSk | TWA: 0.1 mg/m³;<br>STEL: 0.2 mg/m³;<br>Sk | TWA: 0.1 mg/m³;<br>STEL: 0.3 mg/m³;<br>pSk |
| Chemical name | France | Germany TRGS | Germany DFG | Greece | Hungary |
| m-Phenylenediamine<br>108-45-2 | - | - | Sk<br>DS | TWA: 0.1 mg/m³;<br>pSk | - |
| Dibutyltin dilaurate<br>77-58-7 | TWA-VME: 0.1 mg/m³;<br>STEL-VLCT: 0.2 mg/m³; | TWA-AGW;<br>0.0018 ppm (exposure factor 1);<br>TWA-AGW;<br>0.009 mg/m³ (exposure factor 1);<br>Sk | TWA-MAK: 0.004 ppm; I(1);inhalable fraction<br>TWA-MAK: 0.02 mg/m³; I(1);inhalable fraction<br>Peak: 0.004 ppm; inhalable fraction<br>Peak: 0.02 mg/m³; inhalable fraction | TWA: 0.1 mg/m³;<br>STEL: 0.2 mg/m³;<br>pSk | TWA-AK: 0.02 mg/m³;<br>pSk |
| Chemical name | Ireland | Italy MDLPS | Italy AIDII | Latvia | Lithuania |
| m-Phenylenediamine<br>108-45-2 | TWA: 0.1 mg/m³;<br>STEL: 0.3 mg/m³ (calculated); | - | TWA: 0.1 mg/m³; | TWA: 0.1 mg/m³; | TWA-IPRD: 0.1 mg/m³;<br>S |
| Dibutyltin dilaurate<br>77-58-7 | TWA: 0.1 mg/m³;<br>STEL: 0.2 mg/m³; | - | TWA: 0.1 mg/m³;<br>STEL (REL): 0.2 mg/m³;<br>pSk | - | TWA-IPRD: 0.1 mg/m³;<br>STEL-TPRD: 0.2 mg/m³;<br>Sk |
| Chemical name | Luxembourg | Malta | Netherlands | Norway | Poland |
| m-Phenylenediamine<br>108-45-2 | - | - | - | TWA: 0.1 mg/m³;<br>STEL: 0.3 mg/m³ (value calculated);<br>Sk<br>As | - |
| Dibutyltin dilaurate<br>77-58-7 | - | - | - | TWA: 0.1 mg/m³;<br>STEL: 0.2 mg/m³ (value from the regulation);<br>Sk | - |
| Chemical name | Portugal | Romania | Slovakia | Slovenia | Spain |
| m-Phenylenediamine<br>108-45-2 | TWA (VLE-MP): 0.1 mg/m³; | - | - | - | TWA-(VLA-ED): 0.1 mg/m³;<br>S |
| Dibutyltin dilaurate<br>77-58-7 | TWA (VLE-MP): 0.1 mg/m³;<br>STEL (VLE-CD): 0.2 mg/m³;<br>pSk | TWA: 0.05 mg/m³;<br>STEL: 0.15 mg/m³; | TWA: 0.1 mg/m³;<br>Ceiling: 0.2 mg/m³;<br>pSk | TWA: 0.009 mg/m³;<br>TWA: 0.0018 ppm;<br>STEL: 0.0018 ppm;<br>STEL: 0.009 mg/m³;<br>pSk | TWA-(VLA-ED): 0.1 mg/m³;<br>STEL (VLA-EC): 0.2 mg/m³;<br>pSk |

| Chemical name | Sweden | Switzerland | United Kingdom |
|---|---|---|---|
| m-Phenylenediamine<br>108-45-2 | - | TWA-MAK: 0.1 mg/m³;<br>aerosol, inhalable dust, vapour<br>S | - |
| Dibutyltin dilaurate<br>77-58-7 | TLV-NGV: 0.1 mg/m³; total dust<br>STEL (Vägledande KGV): 0.2 mg/m³; total dust<br>Sk | TWA-MAK: 0.004 ppm;<br>TWA-MAK: 0.02 mg/m³;<br>inhalable dust<br>STEL-KZGW: 0.004 ppm;<br>STEL-KZGW: 0.02 mg/m³;<br>inhalable dust<br>Sk | TWA: 0.1 mg/m³;<br>STEL: 0.2 mg/m³;<br>pSk |

**Biological occupational exposure** This product, as supplied, does not contain any hazardous materials with biological limits

**limits** established by the region specific regulatory bodies.

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

| Chemical name | Oral | Dermal | Inhalation |
|---|---|---|---|
| m-Phenylenediamine<br>108-45-2 | - | 0.12 mg/kg bw/day [4] [6]<br>0.49 µg/cm2 [5] [7] | 0.24 mg/m³ [4] [6] |
| Dibutyltin dilaurate<br>77-58-7 | - | 0.43 mg/kg bw/day [4] [6]<br>2.08 mg/kg bw/day [4] [7] | 0.02 mg/m³ [4] [6]<br>0.059 mg/m³ [4] [7] |

**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 |
|---|---|---|---|
| m-Phenylenediamine<br>108-45-2 | 0.06 mg/kg bw/day [4] [6] | 0.25 µg/cm2 [5] [7] | 0.03 mg/m³ [4] [6] |
| Dibutyltin dilaurate<br>77-58-7 | 0.0031 mg/kg bw/day [4] [6]<br>0.02 mg/kg bw/day [4] [7] | 0.5 mg/kg bw/day [4] [6]<br>0.5 mg/kg bw/day [4] [7] | 0.0046 mg/m³ [4] [6]<br>0.04 mg/m³ [4] [7] |

**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 |
|---|---|---|---|---|---|
| m-Phenylenediamine<br>108-45-2 | 0.001 mg/L | 0.046 mg/L | 0.0001 mg/L | - | - |
| Dibutyltin dilaurate<br>77-58-7 | 0.2 mg/kg food<br>0.000463 mg/L | 0.00463 mg/L | 0.0000463 mg/L<br>0.2 mg/kg food | 0.00463 mg/L | - |

| Chemical name | Freshwater sediment | Marine sediment | Sewage treatment | Soil | Food chain |
|---|---|---|---|---|---|
| m-Phenylenediamine<br>108-45-2 | 0.0041 mg/kg sediment dw | 0.00041 mg/kg sediment dw | 1 mg/L | 0.0002 mg/kg soil dw | - |
| Dibutyltin dilaurate<br>77-58-7 | 0.05 mg/kg sediment dw | 0.005 mg/kg sediment dw | 100 mg/L | 0.0407 mg/kg soil dw | - |

**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**

| | |
|---|---|
| **Physical state** | Liquid |
| **Appearance** | Clear Liquid |
| **Color** | Colorless |
| **Odor** | Mild. |
| **Odor threshold** | No information available |

| **Property** | **Values** | **Remarks • Method** |
|---|---|---|
| **Melting point / freezing point** | No data available | None known |
| **Initial boiling point and boiling range** | No data available | None known |
| **Flammability** | No data available | None known |
| **Flammability Limit in Air** | | None known |
| **Upper flammability or explosive limits** | No data available | |
| **Lower flammability or explosive limits** | No data available | |
| **Flash point** | > 148.8889 °C | None known |
| **Autoignition temperature** | No data available | None known |
| **Decomposition temperature** | | None known |
| **pH** | No data available | None known |
| **pH (as aqueous solution)** | No data available | None known |
| **Kinematic viscosity** | No data available | None known |
| **Dynamic viscosity** | 100 - 200 Centipoise | None known |
| **Water solubility** | Insoluble in water | None known |
| **Solubility(ies)** | No data available | None known |
| **Partition coefficient** | No data available | None known |
| **Vapor pressure** | No data available | None known |
| **Relative density** | 1.2 | None known |
| **Bulk density** | No data available | |
| **Liquid Density** | No data available | |
| **Relative vapor density** | >1 | 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.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

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

**Symptoms** No information available.

**Acute toxicity**

**Numerical measures of toxicity**

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| m-Phenylenediamine | = 204 mg/kg ( Rat ) | = 1100 mg/kg ( Rat ) | = 3.2 mg/L ( Rat ) 4 h |
| Dibutyltin dilaurate | = 45 mg/kg ( Rat ) | > 2000 mg/kg ( Rat ) | - |

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

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

| Chemical name | European Union |
|---|---|
| m-Phenylenediamine | Muta. 2 |
| Dibutyltin dilaurate | Muta. 2 |

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

| Chemical name | European Union |
|---|---|
| Dibutyltin dilaurate | Repr. 1B |

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** 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** Harmful to aquatic life with long lasting effects.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|---|---|---|---|
| m-Phenylenediamine | EC50: =2.4mg/L (96h, Pseudokirchneriella subcapitata) | LC50: =1600mg/L (96h, Pimephales promelas) | - | EC50: =5.9mg/L (48h, Daphnia magna) |

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

### 12.3. Bioaccumulative potential

**Bioaccumulation**

**Component Information**

| Chemical name | Partition coefficient |
|---|---|
| m-Phenylenediamine | -0.3 |
| Dibutyltin dilaurate | 4.44 |

### 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 |
|---|---|
| m-Phenylenediamine | Not PBT/vPvB |
| Dibutyltin dilaurate | 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 |
|---|---|
| m-Phenylenediamine - 108-45-2 | RG 15,RG 15bis |

**Germany**
**Water hazard class (WGK)** obviously hazardous to water (WGK 2)

**Netherlands**

**Carcinogenic, mutagenic and reproductive toxic effects**

| Chemical name | Netherlands - List of Carcinogens | Netherlands - List of Mutagens | Netherlands - List of Reproductive Toxins |
|---|---|---|---|
| Dibutyltin dilaurate | - | - | Fertility Category 1B<br>Development Category 1B |

**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 Annex XVII | Substance subject to authorization per REACH Annex XIV |
|---|---|---|
| m-Phenylenediamine - 108-45-2 | 75 | - |
| Dibutyltin dilaurate - 77-58-7 | 30<br>75 | - |

**Persistent Organic Pollutants**

Not applicable

**Export Notification requirements**

This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

| Chemical name | European Export/Import Restrictions per (EC) 649/2012 - Annex Number |
|---|---|
| Dibutyltin dilaurate - 77-58-7 | I.1 |

**Ozone-depleting substances (ODS) Regulation (EU) 2024/590**

Not applicable

**International Inventories**

| | |
|---|---|
| **TSCA** | Contact supplier for inventory compliance status |
| **DSL/NDSL** | Contact supplier for inventory compliance status |
| **EINECS/ELINCS** | Contact supplier for inventory compliance status |
| **ENCS** | Contact supplier for inventory compliance status |
| **IECSC** | Contact supplier for inventory compliance status |
| **KECL** | Contact supplier for inventory compliance status |
| **PICCS** | Contact supplier for inventory compliance status |
| **AIIC** | Contact supplier for inventory compliance status |
| **NZIoC** | 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 Chemicals Inventory
**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 any hazard and/or precautionary statements referred to under Sections 2-15**
H301 - Toxic if swallowed
H311 - Toxic in contact with skin
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H331 - Toxic if inhaled
H341 - Suspected of causing genetic defects
H360FD - May damage fertility. May damage the unborn child
H372 - Causes damage to organs through prolonged or repeated exposure
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

**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 |
| Chronic aquatic toxicity | Calculation method |
| Acute aquatic toxicity | Calculation method |
| Aspiration hazard | Calculation method |
| Ozone | Calculation method |

**Key literature references and sources for data used to compile the SDS**
U.S. 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)
U.S. 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)
Japan 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)
International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications
International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program
International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set
United Nations World Health Organization (WHO)

**Revision date** 02-Jul-2026

**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** 02-Jul-2026 **Revision Number** 1

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

### 1.1. Product identifier

**Safety data sheet number** FG-140B

**Product Name** Part B:
Brush-On 35
PL-40

### Other means of identification

**Unique Formula Identifier (UFI)** D780-W0XM-900W-JH5D

**Pure substance/mixture** Mixture

Contains Benzene, 1,3-diisocyanatomethyl-

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

**Recommended use** Industrial use

**Uses advised against**

### 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<br>10 Italian Poison Centres:<br>Rome +39 06-68593726 / +30 06-49978000 / +39 06-3054343, Foggia +39 800183459, Naples +39 081-5453333, Florenze +39 055-7947819, Pavia +39 0382-24444, Milan +39 02-66101029, Bergamo +39 80088300, Verona +39 800011858 |
| **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]***

| | |
|---|---|
| **Respiratory sensitization** | Category 1 - (H334) |

### 2.2. Label elements

Contains Benzene, 1,3-diisocyanatomethyl-



**Signal word**
Danger

**Hazard statements**
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
EUH208 - Contains Benzene, 1,3-diisocyanatomethyl- May produce an allergic reaction.

**Precautionary Statements - EU (§28, 1272/2008)**
P261 - Avoid breathing dust, fume, gas, mist, vapors and spray.
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

**Additional information**
This product requires tactile warnings if supplied to the general public. This product requires child resistant fastenings if supplied to the general public.

**2.3. Other hazards**

May be harmful if swallowed. May be harmful in contact with skin.

**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**

Hazardous

| Chemical name | Weight-% | REACH registration number | EC No. (Index No.) | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) | Notes |
|---|---|---|---|---|---|---|---|---|
| Benzene, 1,3-diisocyanatomethyl- 26471-62-5 | 0.1-1 | 01-2119454791-34-0032 | 247-722-4 (615-006-00-4) | Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Acute Tox. 2 (H330) Resp. Sens. 1 (H334) STOT SE 3 (H335) Carc. 2 (H351) Aquatic Chronic 3 (H412) | Resp. Sens. 1 :: C>=0.1% | - | - | C |

*CLP Notes:*
*Note C - Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.*

**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 |
|---|---|---|---|---|---|
| Benzene, | 3060 | 10000 | 0.099 | No data available | No data available |

| 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 |
|---|---|---|---|---|---|
| 1,3-diisocyanatomethyl-26471-62-5 | | | | | |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** 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.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin contact** Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.

**Ingestion** May produce an allergic reaction. Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.

**Self-protection of the first aider** 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.

### 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.

**Effects of Exposure** No information available.

### 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. |

**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. |
| **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. |
| **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. |

**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 |
|---|---|---|---|---|---|
| Benzene, 1,3-diisocyanatomethyl- 26471-62-5 | TWA: 6 µg/m³; TWA: 10 µg/m³; | TWA-TMW: 0.005 ppm; TWA-TMW: 0.035 mg/m³; STEL-KZGW: 0.02 ppm (4 X 15 min); STEL-KZGW: 0.14 mg/m³ (4 X 15 min); DS RS | TWA: 0.005 ppm; TWA: 0.037 mg/m³; STEL: 0.02 ppm; STEL: 0.14 mg/m³; | TWA: 0.04 mg/m³; STEL: 0.15 mg/m³; | TWA-GVI: 0.02 mg/m³; STEL-KGVI: 0.07 mg/m³; |
| Chemical name | Cyprus | Czech Republic | Denmark | Estonia | Finland |
| Benzene, 1,3-diisocyanatomethyl- 26471-62-5 | - | - | - | TWA: 0.005 ppm; STEL: 0.01 ppm; S | STEL: 0.035 mg/m³; |
| Chemical name | France | Germany TRGS | Germany DFG | Greece | Hungary |
| Benzene, 1,3-diisocyanatomethyl- 26471-62-5 | TWA-VME: 0.01 ppm; TWA-VME: 0.08 mg/m³; STEL-VLCT: 0.02 ppm; STEL-VLCT: 0.16 mg/m³; RS | - | TWA-MAK: 0.001 mg/m³; I(1); TWA-MAK: 0.007 mg/m³; I(1); Peak: 0.001 mg/m³; Peak: 0.007 mg/m³; DS RS | - | - |
| Chemical name | Ireland | Italy MDLPS | Italy AIDII | Latvia | Lithuania |
| Benzene, 1,3-diisocyanatomethyl- 26471-62-5 | TWA: 0.02 mg/m³; STEL: 0.07 mg/m³ (all, except Methyl isocyanate and 2,4-Toluene diisocyanate or 2,6-Toluene diisocyanate); | - | TWA: 0.001 ppm; STEL (REL): 0.005 ppm; DS | - | TWA-IPRD: 0.005 ppm; dust, aerosols TWA-IPRD: 0.04 mg/m³; dust, aerosols Ceiling (NRD): 0.01 ppm; dust, aerosols Ceiling (NRD): 0.07 mg/m³; dust, aerosols S |
| Chemical name | Luxembourg | Malta | Netherlands | Norway | Poland |
| Benzene, 1,3-diisocyanatomethyl- 26471-62-5 | - | - | - | TWA: 0.005 ppm; STEL: 0.01 ppm (value from the regulation); As | TWA-NDS: 0.007 mg/m³; STEL-NDSCh: 0.021 mg/m³; |

| Chemical name | Portugal | Romania | Slovakia | Slovenia | Spain |
|---|---|---|---|---|---|
| Benzene, 1,3-diisocyanatomethyl- 26471-62-5 | TWA (VLE-MP): 0.005 ppm; STEL (VLE-CD): 0.02 ppm; | - | - | TWA: 0.035 mg/m³; TWA: 0.005 ppm; STEL: 0.005 ppm; STEL: 0.035 mg/m³; | - |

| Chemical name | Sweden | Switzerland | United Kingdom |
|---|---|---|---|
| Benzene, 1,3-diisocyanatomethyl- 26471-62-5 | TLV-NGV: 0.002 ppm; TLV-NGV: 0.014 mg/m³; STEL (Bindande KGV): 0.005 ppm; STEL (Bindande KGV): 0.04 mg/m³; S | TWA-MAK: 0.02 mg/m³; STEL-KZGW: 0.02 mg/m³; S | TWA: 0.02 mg/m³; STEL: 0.07 mg/m³; poS |

**Biological occupational exposure limits**

| Chemical name | European Union | Austria | Bulgaria | Croatia | Czech Republic |
|---|---|---|---|---|---|
| Benzene, 1,3-diisocyanatomethyl- 26471-62-5 | - | 10 µg/g Creatinine - urine (4,4'-Diaminodiphenylmethane) - after end of work day, at the end of a work week/end of the shift | - | - | - |

| Chemical name | Denmark | Finland | France | Germany DFG | Germany TRGS |
|---|---|---|---|---|---|
| Benzene, 1,3-diisocyanatomethyl- 26471-62-5 | - | - | - | 5 µg/g Creatinine - BAT (end of exposure or end of shift) urine | - |

| Chemical name | Hungary | Ireland | Italy MDLPS | Italy AIDII |
|---|---|---|---|---|
| Benzene, 1,3-diisocyanatomethyl- 26471-62-5 | - | 1 µmol/mol Creatinine (urine - urinary Diamine post task) | - | 5 µg/g Creatinine - urine (Toluenediamine isomers with hydrolysis) - end of shift |

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

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

**Predicted No Effect Concentration (PNEC)**

| Chemical name | Freshwater | Freshwater (intermittent release) | Marine water | Marine water (intermittent release) | Air |
|---|---|---|---|---|---|
| Benzene, 1,3-diisocyanatomethyl- 26471-62-5 | 0.0125 mg/L | 0.125 mg/L | 0.00125 mg/L | - | - |

| Chemical name | Freshwater sediment | Marine sediment | Sewage treatment | Soil | Food chain |
|---|---|---|---|---|---|
| Benzene, 1,3-diisocyanatomethyl- 26471-62-5 | - | - | 1 mg/L | 1 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.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** Use appropriate respiratory protection.

**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.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| **Physical state** | Liquid |
| **Appearance** | Liquid |
| **Color** | Colorless to yellow |
| **Odor** | Pungent. |
| **Odor threshold** | No information available |

| Property | Values | Remarks • Method |
|---|---|---|
| **Melting point / freezing point** | No data available | None known |
| **Initial boiling point and boiling range** | No data available | None known |
| **Flammability** | No data available | None known |
| **Flammability Limit in Air** | | None known |
| **Upper flammability or explosive limits** | No data available | |
| **Lower flammability or explosive limits** | No data available | |
| **Flash point** | > 132.222 °C | None known |
| **Autoignition temperature** | No data available | None known |
| **Decomposition temperature** | | None known |
| **pH** | No data available | None known |
| **pH (as aqueous solution)** | No data available | None known |
| **Kinematic viscosity** | No data available | None known |
| **Dynamic viscosity** | <7500 Centipoise | None known |
| **Water solubility** | Insoluble in water | None known |
| **Solubility(ies)** | No data available | None known |
| **Partition coefficient** | No data available | None known |
| **Vapor pressure** | No data available | None known |
| **Relative density** | 1.02 - 1.04 | None known |
| **Bulk density** | No data available | |
| **Liquid Density** | No data available | |
| **Relative vapor density** | >1 | 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 sensitization in susceptible persons. (based on components).

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** 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 be harmful in contact with skin.

**Ingestion** Specific test data for the substance or mixture is not available. May cause additional effects as listed under "Inhalation".

**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.

**Acute toxicity**

**Numerical measures of toxicity**

**The following ATE values have been calculated for the mixture**

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Benzene, 1,3-diisocyanatomethyl- | = 3060 mg/kg ( Rat ) | = 10000 mg/kg ( Rabbit ) | = 0.099 mg/L ( Rat ) 4 h |

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

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

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

| Chemical name | European Union |
|---|---|
| Benzene, 1,3-diisocyanatomethyl- | Carc. 2 |

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** 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**

**Component Information**

| Chemical name | Partition coefficient |
|---|---|
| Benzene, 1,3-diisocyanatomethyl- | 3.43 |

**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, 1,3-diisocyanatomethyl- | 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 |
|---|---|
| Benzene, 1,3-diisocyanatomethyl- - 26471-62-5 | RG 62 |

**Germany**
**Water hazard class (WGK)** slightly hazardous to water (WGK 1)

**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 Annex XVII | Substance subject to authorization per REACH Annex XIV |
|---|---|---|
| Benzene, 1,3-diisocyanatomethyl- - 26471-62-5 | 75 | - |

**Persistent Organic Pollutants**
Not applicable

**Ozone-depleting substances (ODS) Regulation (EU) 2024/590**
Not applicable

**International Inventories**

| | |
|---|---|
| **TSCA** | Contact supplier for inventory compliance status |
| **DSL/NDSL** | Contact supplier for inventory compliance status |
| **EINECS/ELINCS** | Contact supplier for inventory compliance status |
| **ENCS** | Contact supplier for inventory compliance status |
| **IECSC** | Contact supplier for inventory compliance status |
| **KECL** | Contact supplier for inventory compliance status |
| **PICCS** | Contact supplier for inventory compliance status |
| **AIIC** | Contact supplier for inventory compliance status |
| **NZIoC** | 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 Chemicals Inventory
**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 any hazard and/or precautionary statements referred to under Sections 2-15**
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H330 - Fatal if inhaled
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 - May cause respiratory irritation
H351 - Suspected of causing cancer
H412 - Harmful to aquatic life with long lasting effects

**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 |
| Chronic aquatic toxicity | Calculation method |
| Acute aquatic toxicity | Calculation method |
| Aspiration hazard | Calculation method |
| Ozone | Calculation method |

**Key literature references and sources for data used to compile the SDS**
U.S. 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)
U.S. 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)
Japan 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)
International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications
International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program
International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set
United Nations World Health Organization (WHO)

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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**