



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: REACH Regulation (EC) No 1907/2006, as retained in UK law by (SI 2019/758 as amended)

**ALCOLIN FIRE STOP FILLA FOAM**  
Supersedes date 16-Apr-2026

Revision date 16-Apr-2026  
Revision Number 1

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

### 1.1. Product identifier

**Product Name** ALCOLIN FIRE STOP FILLA FOAM  
**Pure substance/mixture** Mixture

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

**Recommended use** Building and construction work  
**Uses advised against** None known

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

#### Company Name

Bostik Limited  
Common Rd  
ST16 3EH  
Stafford UK  
Tel: +44 (1785) 27 26 25  
Fax: +44 (1785) 25 72 36

**E-mail address** SDS.box-EU@bostik.com

### 1.4. Emergency telephone number

**United Kingdom** Bostik: +44 (1785) 272650 (9am to 5pm Mon-Fri)  
NHS: 111

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**GB CLP (SI 2020/1567 as amended)**

|                                                           |                           |
|-----------------------------------------------------------|---------------------------|
| <b>Aerosols</b>                                           | Category 1 - (H222, H229) |
| <b>Acute toxicity - Inhalation (Dusts/Mists)</b>          | Category 4 - (H332)       |
| <b>Skin irritation</b>                                    | Category 2 - (H315)       |
| <b>Eye irritation</b>                                     | Category 2 - (H319)       |
| <b>Respiratory sensitisation</b>                          | Category 1 - (H334)       |
| <b>Skin sensitisation</b>                                 | Category 1 - (H317)       |
| <b>Carcinogenicity</b>                                    | Category 2 - (H351)       |
| <b>Specific target organ toxicity (single exposure)</b>   | Category 3 - (H335)       |
| <b>Specific target organ toxicity (repeated exposure)</b> | Category 2 - (H373)       |
| <b>Hazardous to the aquatic environment - chronic</b>     | Category 3 - (H412)       |

### 2.2. Label elements

Contains Diphenylmethane-diisocyanate, isomers and homologues; Reaction products of phosphoryl trichloride and 2-methyloxirane

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**Signal word**  
Danger

## Hazard statements

H222 - Extremely flammable aerosol.  
H229 - Pressurised container: May burst if heated.  
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.  
H412 - Harmful to aquatic life with long lasting effects.

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

P101 - If medical advice is needed, have product container or label at hand  
P102 - Keep out of reach of children  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P211 - Do not spray on an open flame or other ignition source  
P251 - Do not pierce or burn, even after use  
P260 - Do not breathe vapours/spray  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment  
P280 - Wear protective gloves and eye/face protection  
P302 + P352 - IF ON SKIN: Wash with plenty of water and soap  
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  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P405 - Store locked up  
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F  
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

## Special provisions concerning the labelling of certain mixtures

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used. As from 24 August 2023 adequate training is required before industrial or professional use.

## Additional information

This product requires tactile warnings if supplied to the general public. Placed on the market in aerosol containers or in containers fitted with a sealed spray attachment.

## 2.3. Other hazards

During transportation by car the cans should stand upright in the cargo space. In case of insufficient ventilation and/or through use, the formation of an explosive/highly flammable mixture is possible. The mentioned hazards are valid for the non-reacted content of the can or of the fresh foam. When foaming the propellants are highly flammable. May be harmful if swallowed.

## PBT & vPvB

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

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

| 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 |
|---------------------------------------------------------------------------------------------------------------------------|------------|---------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------|----------------------|-------|
| Diphenylmethane-diisocyanate, isomers and homologues<br>9016-87-9                                                         | 40 - <80   | [7]                       | 618-498-9                   | STOT SE 3 (H335)<br>STOT RE 2 (H373)<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>Acute Tox. 4 (H332) | -                                  | -        | -                    | -     |
| Reaction products of phosphoryl trichloride and 2-methyloxirane<br>1244733-77-4                                           | 10 - <20   | 01-2119486772-26-XXXX     | 807-935-0                   | Acute Tox. 4 (H302)<br>Carc. 2 (H351)<br>Aquatic Chronic 3 (H412)                                                                                                           | -                                  | -        | -                    | -     |
| Isobutane<br>75-28-5                                                                                                      | 5 - <10    | 01-2119485395-27-XXXX     | 200-857-2<br>(601-004-00-0) | Flam. Gas 1 (H220)<br>Press. Gas (H280)                                                                                                                                     | -                                  | -        | -                    | C,U   |
| Dimethyl ether<br>115-10-6                                                                                                | 5 - <10    | 01-2119472128-37-XXXX     | 204-065-8<br>(603-019-00-8) | Flam. Gas 1 (H220)<br>Press. Gas (H280)                                                                                                                                     | -                                  | -        | -                    | U     |
| 1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, mixed esters with diethylene glycol and propylene glycol<br>77098-07-8 | 1 - <2.5   | 01-2119480176-36-XXXX     | -                           | Aquatic Chronic 2 (H411)                                                                                                                                                    | -                                  | -        | -                    | -     |
| Butane<br>106-97-8                                                                                                        | 0.1 - <1   | 01-2119474691-32-XXXX     | 203-448-7<br>(601-004-00-0) | Flam. Gas 1 (H220)<br>Press. Gas (H280)                                                                                                                                     | -                                  | -        | -                    | C,U   |
| Propylene carbonate<br>108-32-7                                                                                           | 0.1 - <1   | 01-2119537232-48-XXXX     | 203-572-1<br>(607-194-00-1) | Eye Irrit. 2 (H319)                                                                                                                                                         | -                                  | -        | -                    | -     |
| Diethylene glycol<br>111-46-6                                                                                             | 0.1 - <0.3 | 01-2119457857-21-XXXX     | 203-872-2<br>(603-140-00-6) | Acute Tox. 4 (H302)                                                                                                                                                         | -                                  | -        | -                    | -     |
| Diethylene glycol<br>111-46-6                                                                                             | 0.1 - <0.3 | 01-2119457857-21-XXXX     | 203-872-2<br>(603-140-00-6) | Acute Tox. 4 (H302)<br>STOT RE 2 (H373)                                                                                                                                     | -                                  | -        | -                    | -     |

Substances identified by a number starting "RR-" in the CAS-field are substances for which the CAS# is not adopted in EU and we use an internal numbering system to track within our SDS software

**NOTE [7]** - No registration number is given for this substance because it is a polymer exempted from registration according to the provisions of Article 2(9) of REACH. All monomers or other substances within the polymer are registered or exempt from registration

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.

Note U - When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.), Press. Gas (Liq.), Press. Gas (Ref. Liq.), Press. Gas (Diss.). Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

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**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                                                   | EC No. (Index No.)          | CAS No.      | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|-----------------------------------------------------------------|-----------------------------|--------------|-----------------|-------------------|---------------------------------------------|------------------------------------------|--------------------------------------|
| Diphenylmethane-diisocyanate, isomers and homologues            | 618-498-9                   | 9016-87-9    | -               | -                 | 1.5                                         | -                                        | -                                    |
| Reaction products of phosphoryl trichloride and 2-methyloxirane | 807-935-0                   | 1244733-77-4 | 632             | -                 | -                                           | -                                        | -                                    |
| Isobutane                                                       | 200-857-2<br>(601-004-00-0) | 75-28-5      | -               | -                 | -                                           | -                                        | -                                    |
| Dimethyl ether                                                  | 204-065-8<br>(603-019-00-8) | 115-10-6     | -               | -                 | -                                           | -                                        | -                                    |
| Butane                                                          | 203-448-7<br>(601-004-00-0) | 106-97-8     | -               | -                 | -                                           | -                                        | -                                    |
| Propylene carbonate                                             | 203-572-1<br>(607-194-00-1) | 108-32-7     | -               | -                 | -                                           | -                                        | -                                    |
| Diethylene glycol                                               | 203-872-2<br>(603-140-00-6) | 111-46-6     | 1120            | -                 | -                                           | -                                        | -                                    |
| Diethylene glycol                                               | 203-872-2<br>(603-140-00-6) | 111-46-6     | 1120            | -                 | 4.6046                                      | -                                        | -                                    |

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>     | Remove to fresh air. May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. 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 doctor. Wash off immediately with soap and plenty of water for at least 15 minutes. Do not use solvents or thinners to dissolve the material.                                       |
| <b>Ingestion</b>      | May produce an allergic reaction. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical attention. Clean mouth with                                                                                                                  |

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water. Drink 1 or 2 glasses of water.

**Self-protection of the first aider** Remove all sources of ignition. 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 vapours 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. 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. Erythema (skin redness). 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. Suspected of causing cancer.

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

**Note to doctors** May cause sensitisation in susceptible persons. Treat symptomatically.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

**Suitable Extinguishing Media** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol resistant foam.

**Unsuitable extinguishing media** Full water jet. DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.

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

**Specific hazards arising from the chemical** Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cylinders may rupture under extreme heat. Damaged cylinders should be handled only by specialists. Containers may explode when heated. Product is or contains a sensitizer. May cause sensitisation by inhalation. May cause sensitisation by skin contact.

**Hazardous combustion products** Carbon oxides. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Phosphorus oxides. Nitrogen oxides (NO<sub>x</sub>). Hydrogen cyanide. Isocyanates. Bromine compounds. Halogenated compounds.

### **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 protective equipment.

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

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

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharges. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid breathing vapours or mists.

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**Other information** Ventilate the area. 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** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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

**Methods for containment** Stop leak if you can do it without risk. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Flood with water to complete polymerization and scrape off floor.

**Methods for cleaning up** Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Use clean non-sparking tools to collect absorbed material.

**Prevention of secondary hazards** Residues which cannot be recycled are disposed of as chemical waste. Equipment cleaned with organic solvent, washings are collected and disposed of as solvent waste. Eliminate all ignition sources if safe to do so.

## **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** Use personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use spark-proof tools and explosion-proof equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Keep in an area equipped with sprinklers. Do not puncture or incinerate cans. Contents under pressure. In case of rupture. Avoid breathing vapours or mists. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. 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 it before reuse.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

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

**Storage Conditions** Protect from sunlight. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals. Store locked up. Keep out of the reach of children. Keep/store only in original container. Store in a dry place. Store in a closed container. Protect from moisture.

**Recommended storage** Do not freeze.

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temperature

## 7.3. Specific end use(s)

### Specific use(s)

Building and construction work.

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

### Other information

Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

| Chemical name                                                     | European Union                                                           | United Kingdom                                                           |
|-------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Diphenylmethane-diisocyanate, isomers and homologues<br>9016-87-9 | TWA: 6 µg/m³;<br>TWA: 10 µg/m³;                                          | TWA: 0.02 mg/m³;<br>STEL: 0.07 mg/m³;<br>poS                             |
| Dimethyl ether<br>115-10-6                                        | TWA: 1000 ppm;<br>TWA: 1920 mg/m³;                                       | TWA: 400 ppm;<br>TWA: 766 mg/m³;<br>STEL: 500 ppm;<br>STEL: 958 mg/m³;   |
| 4,4-Methylenediphenyl diisocyanate<br>101-68-8                    | TWA: 10 µg NCO / m³ (2.9 ppb)<br>STEL: 20 µg NCO / m³ (5.8 ppb)<br>Sk* + | TWA: 0.02 mg/m³;<br>STEL: 0.07 mg/m³;<br>poS                             |
| Butane<br>106-97-8                                                | -                                                                        | TWA: 600 ppm;<br>TWA: 1450 mg/m³;<br>STEL: 750 ppm;<br>STEL: 1810 mg/m³; |
| Diethylene glycol<br>111-46-6                                     | -                                                                        | TWA: 23 ppm;<br>TWA: 101 mg/m³;<br>STEL: 69 ppm;<br>STEL: 303 mg/m³;     |
| Diethylene glycol<br>111-46-6                                     | -                                                                        | TWA: 23 ppm;<br>TWA: 101 mg/m³;<br>STEL: 69 ppm;<br>STEL: 303 mg/m³;     |

| Chemical name                                                     | European Union | Ireland                                                   | United Kingdom |
|-------------------------------------------------------------------|----------------|-----------------------------------------------------------|----------------|
| Diphenylmethane-diisocyanate, isomers and homologues<br>9016-87-9 | -              | 1 µmol/mol Creatinine (urine - urinary Diamine post task) | -              |
| 4,4-Methylenediphenyl diisocyanate<br>101-68-8                    | -              | 1 µmol/mol Creatinine (urine - urinary Diamine post task) | -              |

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

| Derived No Effect Level (DNEL)                                                 |                |                                |               |
|--------------------------------------------------------------------------------|----------------|--------------------------------|---------------|
| Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4) |                |                                |               |
| Type                                                                           | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Long term<br>Systemic health effects                                 | Inhalation     | 8.2 mg/m³                      |               |
| worker<br>Short term<br>Systemic health effects                                | Inhalation     | 22.6 mg/m³                     |               |
| worker<br>Long term<br>Systemic health effects                                 | Dermal         | 2.91 mg/kg bw/d                |               |

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| <b>Dimethyl ether (115-10-6)</b>               |                |                                |               |
|------------------------------------------------|----------------|--------------------------------|---------------|
| Type                                           | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Long term<br>Systemic health effects | Inhalation     | 1894 mg/m <sup>3</sup>         |               |

| <b>Propylene carbonate (108-32-7)</b>          |                |                                |               |
|------------------------------------------------|----------------|--------------------------------|---------------|
| Type                                           | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Long term<br>Systemic health effects | Inhalation     | 70.53 mg/m <sup>3</sup>        |               |
| worker<br>Long term<br>Local health effects    | Inhalation     | 20 mg/m <sup>3</sup>           |               |
| worker<br>Long term<br>Systemic health effects | Dermal         | 20 mg/kg bw/d                  |               |
| worker<br>Long term<br>Local health effects    | Dermal         | 10 mg/cm <sup>2</sup>          |               |

| <b>Diethylene glycol (111-46-6)</b>            |                |                                |               |
|------------------------------------------------|----------------|--------------------------------|---------------|
| Type                                           | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Long term<br>Systemic health effects | Inhalation     | 44 mg/m <sup>3</sup>           |               |
| worker<br>Long term<br>Local health effects    | Inhalation     | 60 mg/m <sup>3</sup>           |               |
| worker<br>Long term<br>Systemic health effects | Dermal         | 43 mg/kg bw/d                  |               |

| <b>Diethylene glycol (111-46-6)</b>            |                |                                |               |
|------------------------------------------------|----------------|--------------------------------|---------------|
| Type                                           | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Long term<br>Systemic health effects | Inhalation     | 44 mg/m <sup>3</sup>           |               |
| worker<br>Long term<br>Local health effects    | Inhalation     | 60 mg/m <sup>3</sup>           |               |
| worker<br>Long term<br>Systemic health effects | Dermal         | 4440 mg/kg bw/d                |               |

| <b>Derived No Effect Level (DNEL)</b>                                                 |                |                                |               |
|---------------------------------------------------------------------------------------|----------------|--------------------------------|---------------|
| <b>Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)</b> |                |                                |               |
| Type                                                                                  | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer<br>Long term<br>Systemic health effects                                      | Inhalation     | 1.45 mg/m <sup>3</sup>         |               |
| Consumer<br>Short term                                                                | Inhalation     | 5.6 mg/m <sup>3</sup>          |               |

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| Systemic health effects                           |        |                 |  |
| Consumer<br>Long term<br>Systemic health effects  | Dermal | 1.04 mg/kg bw/d |  |
| Consumer<br>Long term<br>Systemic health effects  | Oral   | 0.52 mg/kg bw/d |  |
| Consumer<br>Short term<br>Systemic health effects | Oral   | 2 mg/kg bw/d    |  |

## Dimethyl ether (115-10-6)

| Type                                             | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|--------------------------------------------------|----------------|--------------------------------|---------------|
| Consumer<br>Long term<br>Systemic health effects | Inhalation     | 471 mg/m <sup>3</sup>          |               |

## Propylene carbonate (108-32-7)

| Type                                             | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|--------------------------------------------------|----------------|--------------------------------|---------------|
| Consumer<br>Long term<br>Systemic health effects | Inhalation     | 17.4 mg/m <sup>3</sup>         |               |
| Consumer<br>Long term<br>Local health effects    | Inhalation     | 10 mg/m <sup>3</sup>           |               |
| Consumer<br>Long term<br>Systemic health effects | Dermal         | 10 mg/kg bw/d                  |               |
| Consumer<br>Long term<br>Systemic health effects | Oral           | 10 mg/kg bw/d                  |               |

## Diethylene glycol (111-46-6)

| Type                                             | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|--------------------------------------------------|----------------|--------------------------------|---------------|
| Consumer<br>Long term<br>Systemic health effects | Inhalation     | 12 mg/m <sup>3</sup>           |               |
| Consumer<br>Long term<br>Local health effects    | Inhalation     | 12 mg/m <sup>3</sup>           |               |
| Consumer<br>Long term<br>Systemic health effects | Dermal         | 21 mg/kg                       |               |

## Diethylene glycol (111-46-6)

| Type                                             | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|--------------------------------------------------|----------------|--------------------------------|---------------|
| Consumer<br>Long term<br>Systemic health effects | Inhalation     | 12 mg/m <sup>3</sup>           |               |
| Consumer<br>Long term<br>Local health effects    | Inhalation     | 12 mg/m <sup>3</sup>           |               |
| Consumer<br>Long term<br>Systemic health effects | Dermal         | 21 mg/kg bw/d                  |               |
| Consumer                                         | Inhalation     | 12 mg/m <sup>3</sup>           |               |

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|--------------------------------------------------|------------|----------------------|--|
| Long term<br>Systemic health effects             |            |                      |  |
| Consumer<br>Long term<br>Local health effects    | Inhalation | 12 mg/m <sup>3</sup> |  |
| Consumer<br>Long term<br>Systemic health effects | Dermal     | 21 mg/kg bw/d        |  |

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

| <b>Predicted No Effect Concentration (PNEC)</b>                                       |                                          |
|---------------------------------------------------------------------------------------|------------------------------------------|
| <b>Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)</b> |                                          |
| Environmental compartment                                                             | Predicted No Effect Concentration (PNEC) |
| Freshwater                                                                            | 0.32 mg/l                                |
| Marine water                                                                          | 0.032 mg/l                               |
| Sewage treatment plant                                                                | 19.1 mg/l                                |
| Freshwater sediment                                                                   | 11.5 mg/kg dry weight                    |
| Marine sediment                                                                       | 1.15 mg/kg dry weight                    |
| Soil                                                                                  | 0.34 mg/kg dry weight                    |
| Freshwater - intermittent                                                             | 0.51 mg/l                                |

| <b>Dimethyl ether (115-10-6)</b>   |                                          |
|------------------------------------|------------------------------------------|
| Environmental compartment          | Predicted No Effect Concentration (PNEC) |
| Freshwater                         | 0.155 mg/l                               |
| Marine water                       | 0.016 mg/l                               |
| Microorganisms in sewage treatment | 160 mg/l                                 |
| Freshwater sediment                | 0.681 mg/kg dry weight                   |
| Soil                               | 0.45 mg/kg dry weight                    |

| <b>Propylene carbonate (108-32-7)</b> |                                          |
|---------------------------------------|------------------------------------------|
| Environmental compartment             | Predicted No Effect Concentration (PNEC) |
| Freshwater                            | 0.9 mg/l                                 |
| Marine water                          | 0.09 mg/l                                |
| Soil                                  | 0.81 mg/kg dry weight                    |
| Sewage treatment plant                | 7400 mg/l                                |

| <b>Diethylene glycol (111-46-6)</b> |                                          |
|-------------------------------------|------------------------------------------|
| Environmental compartment           | Predicted No Effect Concentration (PNEC) |
| Freshwater                          | 10 mg/l                                  |
| Marine water                        | 1 mg/l                                   |
| Sewage treatment plant              | 199 mg/l                                 |
| Freshwater sediment                 | 20.9 mg/kg dry weight                    |
| Marine sediment                     | 2.09 mg/kg dry weight                    |
| Soil                                | 1.53 mg/kg dry weight                    |
| Freshwater - intermittent           | 10 mg/l                                  |

| <b>Diethylene glycol (111-46-6)</b> |                                          |
|-------------------------------------|------------------------------------------|
| Environmental compartment           | Predicted No Effect Concentration (PNEC) |
| Freshwater                          | 10 mg/l                                  |
| Marine water                        | 1 mg/l                                   |
| Sewage treatment plant              | 199 mg/l                                 |
| Freshwater sediment                 | 20.9 mg/kg dry weight                    |
| Marine sediment                     | 2.09 mg/kg dry weight                    |
| Soil                                | 1.53 mg/kg dry weight                    |
| Freshwater - intermittent           | 10 mg/l                                  |

## 8.2. Exposure controls

### Engineering controls

Ensure adequate ventilation, especially in confined areas. Vapours/aerosols must be

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exhausted directly at the point of origin.

## Personal protective equipment

|                          |                                                                                                                                                                                                                                                                                                                          |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye/face protection      | Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.                                                                                                                                                                                                                      |
| Hand protection          | Wear suitable gloves. Butyl rubber. Nitrile rubber. Glove thickness > 0.4 mm. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. The breakthrough time for the mentioned glove material is in general greater than 60 min. Gloves must conform to standard EN 374 |
| Skin and body protection | Wear appropriate personal protective clothing to prevent skin contact.                                                                                                                                                                                                                                                   |
| Respiratory protection   | Ensure adequate respiratory protection during spray applications. In case of insufficient ventilation, wear suitable respiratory equipment.                                                                                                                                                                              |
| Recommended filter type: | Organic gases and vapours filter conforming to EN 14387. Wear a respirator conforming to EN 140 with Type A filter or better. AX.                                                                                                                                                                                        |

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     | Aerosol Foam            |
| Colour         | Pink                    |
| Odour          | Characteristic. Slight. |

| Property                                | Values                   | Remarks • Method                           |
|-----------------------------------------|--------------------------|--------------------------------------------|
| Melting point / freezing point          | No data available        | No data available                          |
| Initial boiling point and boiling range | .                        | Not applicable, Aerosol                    |
| Flammability                            | No data available        | Not applicable for liquids                 |
| Flammability Limit in Air               |                          | None known                                 |
| Upper flammability or explosive limits  | 18.6 Vol%                |                                            |
| Lower flammability or explosive limits  | 1.7 Vol%                 |                                            |
| Flash point                             | No data available        | Not applicable, Aerosol                    |
| Autoignition temperature                | . °C                     | No data available                          |
| Decomposition temperature               |                          | No data available                          |
| pH                                      | No data available        | No data available.                         |
| pH (as aqueous solution)                | No data available        | No data available                          |
| Kinematic viscosity                     | No data available        | No data available                          |
| Dynamic viscosity                       | No data available        | None known                                 |
| Water solubility                        | Insoluble in water.      | Reacts with water Polymerisation can occur |
| Solubility(ies)                         | No data available        | No data available                          |
| Partition coefficient                   | No data available        | No data available                          |
| Vapour pressure                         | 6 - 6.5                  | bar @ 23 °C                                |
| Relative density                        | No data available        | None known                                 |
| Bulk density                            | No data available        |                                            |
| Liquid Density                          | 1.0332 g/cm³             |                                            |
| Relative vapour density                 | No data available        | No data available                          |
| Particle characteristics                |                          |                                            |
| Particle Size                           | No information available |                                            |
| Particle Size Distribution              | No information available |                                            |

### 9.2. Other information

|                   |                          |
|-------------------|--------------------------|
| Solid content (%) | No information available |
| VOC content       | No data available        |

#### 9.2.1. Information with regards to physical hazard classes

Not applicable

#### 9.2.2. Other safety characteristics

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No information available  
Minimum Ignition Temperature 235 . Not applicable  
(°C)

## 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 Yes.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Heating causes rise in pressure with risk of bursting.

### 10.4. Conditions to avoid

Conditions to avoid Product cures with moisture. Heat, flames and sparks. Excessive heat. Protect from moisture. Keep away from open flames, hot surfaces and sources of ignition. Extremes of temperature and direct sunlight.

### 10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents. Water. Alcohols. Amines. Incompatible with oxidising agents.

### 10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions. Stable under recommended storage conditions.

## 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** Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Specific test data for the substance or mixture is not available. May cause sensitisation in susceptible persons. (based on components). May cause irritation of respiratory tract. Harmful by inhalation.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

**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 cause sensitisation by skin contact. Causes skin irritation.

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

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effects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

## 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

### Numerical measures of toxicity

The following ATE values have been calculated for the mixture

ATEmix (oral) 3,878.40 mg/kg  
ATEmix (dermal) >2000 mg/kg  
ATEmix (inhalation-gas) >20000 ppm  
ATEmix (inhalation-dust/mist) 3.14 mg/L  
ATEmix (inhalation-vapour) >20 mg/L

### Component Information

| Chemical name                                                                                               | Oral LD50                                                           | Dermal LD50                                | Inhalation LC50                           |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------|-------------------------------------------|
| Diphenylmethane-diisocyanate, isomers and homologues                                                        | LD50 > 10000 mg/kg (Rattus)                                         | LD 50 > 9400 mg/kg (Oryctolagus cuniculus) | 1.5 mg/L (Rattus) 4 h                     |
| Reaction products of phosphoryl trichloride and 2-methyloxirane                                             | LD50 > 500 - 2000 mg/kg (males); LD50 = 632 mg/kg (females)(Rattus) | LD50 >2000 mg/Kg (Rattus) (OECD 402)       | LD50 >7 mg/L (4h)(Rattus) (OECD 403)      |
| Isobutane                                                                                                   | -                                                                   | -                                          | =658 mg/L (Rattus) 4 h                    |
| Dimethyl ether                                                                                              | -                                                                   | -                                          | =164000 ppm (Rattus) 4 h                  |
| 1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, mixed esters with diethylene glycol and propylene glycol | LD50 > 2000 mg/kg (Rattus)                                          | > 20000 mg/kg (Rabbit)                     | -                                         |
| Butane                                                                                                      | -                                                                   | -                                          | =658 g/m <sup>3</sup> (Rattus) 4 h        |
| Propylene carbonate                                                                                         | LD50 > 5000 mg/kg (Rattus) OECD 401                                 | > 3000 mg/kg (Oryctolagus cuniculus)       | -                                         |
| Diethylene glycol                                                                                           | =1120 mg/kg bw (human)                                              | = 11890 mg/kg (Oryctolagus cuniculus)      | LC0 (4h)> 4600 mg/m <sup>3</sup> (Rattus) |
| Diethylene glycol                                                                                           | =1120 mg/kg bw (human)                                              | = 11890 mg/kg (Oryctolagus cuniculus)      | >4600 mg/m <sup>3</sup> (Rattus) 4 h      |

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

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes skin irritation.

| Diphenylmethane-diisocyanate, isomers and homologues (9016-87-9) |         |                |                |               |                    |
|------------------------------------------------------------------|---------|----------------|----------------|---------------|--------------------|
| Method                                                           | Species | Exposure route | Effective dose | Exposure time | Results            |
| OECD Test No. 404: Acute Dermal Irritation/Corrosion             | Rabbit  |                |                |               | Mild skin irritant |

| Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4) |         |                |                |               |              |
|--------------------------------------------------------------------------------|---------|----------------|----------------|---------------|--------------|
| Method                                                                         | Species | Exposure route | Effective dose | Exposure time | Results      |
| OECD 404                                                                       | Rabbit  | Dermal         |                |               | Non-irritant |

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

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| Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4) |         |                |                |               |              |
|--------------------------------------------------------------------------------|---------|----------------|----------------|---------------|--------------|
| Method                                                                         | Species | Exposure route | Effective dose | Exposure time | Results      |
| OECD 405                                                                       | Rabbit  | eye            |                |               | Non-irritant |

**Respiratory or skin sensitisation** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.

| Component Information                                                |         |              |
|----------------------------------------------------------------------|---------|--------------|
| Diphenylmethane-diisocyanate, isomers and homologues (9016-87-9)     |         |              |
| Method                                                               | Species | Results      |
| OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies | Rat     | Carcinogenic |

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT - single exposure** May cause respiratory irritation.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

H373 - May cause damage to the following organs through prolonged or repeated exposure: Lungs, Inhalation.

**Aspiration hazard** Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** Based on available data, the classification criteria are not met.

### 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-Factor | M-Factor (long-term) |
|-----------------------|----------------------|------------|----------------------------|------------|----------|----------------------|
| Diphenylmethane-diiso | ErC50 (72h)          | CL50 (96h) | -                          | EC50 (24H) |          |                      |

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|---------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------|-----------------------------------------------------|--|--|
| cyanate, isomers and homologues<br>9016-87-9                                    | >1640 mg/L<br>Algae<br>(scenedesmus subspicatus)<br>(OECD 201)        | >1000 mg/L<br>Danio rerio                                               |                          | >1000 mg/L<br>Daphnia magna                         |  |  |
| Reaction products of phosphoryl trichloride and 2-methyloxirane<br>1244733-77-4 | EC50 (72h) = 82 mg/L<br>(Pseudokirchneriella subcapitata)<br>OECD 201 | LC50 (96h) = 51 mg/L<br>(Pimephales promelas) Static                    | -                        | LC50 (48h) = 131 mg/L<br>Daphnia magna              |  |  |
| Dimethyl ether<br>115-10-6                                                      | -                                                                     | LC50: >4.1g/L<br>(96h, Poecilia reticulata)                             | -                        | > 4400 mg/L<br>(Daphnia) (NEN 6501)                 |  |  |
| Propylene carbonate<br>108-32-7                                                 | ErC50 (72h): > 900mg/L<br>(Desmodesmus subspicatus, OECD-201)         | LC50 (96) h > 1000 mg/L<br>(Cyprinus carpio, 67/548/EWG, Annex V, C.1.) | EC50 > 10000 mg/L 17 h   | EC50 (48h): > 1000mg/L<br>(Daphnia magna, OECD 202) |  |  |
| Diethylene glycol<br>111-46-6                                                   | -                                                                     | LC50:<br>=75200mg/L<br>(96h, Pimephales promelas)                       | -                        | EC50:<br>=84000mg/L<br>(48h, Daphnia magna)         |  |  |
| Diethylene glycol<br>111-46-6                                                   | -                                                                     | LC50:<br>=75200mg/L<br>(96h, Pimephales promelas)                       | EC50 = 29228 mg/L 15 min | EC50:<br>=84000mg/L<br>(48h, Daphnia magna)         |  |  |

## 12.2. Persistence and degradability

**Persistence and degradability** No information available.

| Diphenylmethane-diisocyanate, isomers and homologues (9016-87-9)       |               |                   |                           |
|------------------------------------------------------------------------|---------------|-------------------|---------------------------|
| Method                                                                 | Exposure time | Value             | Results                   |
| OECD Test No. 302C: Inherent Biodegradability: Modified MITI Test (II) | 28 days       | 0% biodegradation | Not readily biodegradable |

## 12.3. Bioaccumulative potential

### Bioaccumulation

#### Component Information

| Chemical name                                                   | Partition coefficient |
|-----------------------------------------------------------------|-----------------------|
| Reaction products of phosphoryl trichloride and 2-methyloxirane | 2.68                  |
| Isobutane                                                       | 2.8                   |
| Dimethyl ether                                                  | -0.18                 |
| Butane                                                          | 2.31                  |
| Propylene carbonate                                             | -0.41                 |
| Diethylene glycol                                               | -1.98                 |
| Diethylene glycol                                               | -1.98                 |

## 12.4. Mobility in soil

**Mobility in soil** No information available.

## 12.5. Results of PBT and vPvB assessment

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**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 |
|-------------------------------------------------------------------------------------------------------------|-------------------------|
| Reaction products of phosphoryl trichloride and 2-methyloxirane                                             | Not PBT/vPvB            |
| Isobutane                                                                                                   | Not PBT/vPvB            |
| Dimethyl ether                                                                                              | Not PBT/vPvB            |
| 1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, mixed esters with diethylene glycol and propylene glycol | Not PBT/vPvB            |
| Butane                                                                                                      | Not PBT/vPvB            |
| Propylene carbonate                                                                                         | Not PBT/vPvB            |
| Diethylene glycol                                                                                           | Not PBT/vPvB            |
| Diethylene glycol                                                                                           | Not PBT/vPvB            |

## 12.6. Endocrine disrupting properties Endocrine disrupting properties

**Endocrine disruption for the environment** Based on available data, the classification criteria are not met.

## 12.7. Other adverse effects Other adverse effects

**Other adverse effects** No information available.  
**PMT or vPvM properties** Based on available data, the classification criteria are not met.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products** Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Handle contaminated packages in the same way as the product itself.

**European Waste Catalogue** 08 05 01\* waste isocyanates  
16 05 04\* gases in pressure containers (including halons) containing dangerous substances  
17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03

**Other information** Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14: Transport information

**Note:** Keep from freezing.

### Land transport (ADR/RID)

**14.1 UN number or ID number** UN1950  
**14.2 UN proper shipping name** Aerosols  
**14.3 Transport hazard class(es)** 2  
**Labels** 2.1  
**14.4 Packing group** Not regulated  
**Description** UN1950, Aerosols, 2, (D)  
**14.5 Environmental hazards** No  
**14.6 Special precautions for user**  
**Special Provisions** 190, 327, 344, 625  
**Classification code** 5F  
**Tunnel restriction code** (D)

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14.1 UN number or ID number UN1950  
14.2 UN proper shipping name Aerosols  
14.3 Transport hazard class(es) 2.1  
14.4 Packing group Not regulated  
Description UN1950, Aerosols, 2.1  
14.5 Marine pollutant NP  
14.6 Special precautions for user  
Special Provisions 63,190, 277, 327, 344, 381, 959  
Limited Quantity (LQ) See SP277  
EmS-No. F-D, S-U  
14.7 Maritime transport in bulk according to IMO instruments  
Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

## Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number UN1950  
14.2 UN proper shipping name Aerosols, flammable  
14.3 Transport hazard class(es) 2.1  
14.4 Packing group Not regulated  
Description UN1950, Aerosols, flammable, 2.1  
14.5 Environmental hazards No  
14.6 Special precautions for user  
Special Provisions A145, A167, A802  
Limited quantity (LQ) 30 kg G  
ERG Code 10L

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### European Union

#### Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

##### SVHC: Substances of Very High Concern for Authorisation:

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)

#### EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

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

| Chemical name                                        | CAS No.   | Restricted substance per REACH Annex XVII |
|------------------------------------------------------|-----------|-------------------------------------------|
| Diphenylmethane-diisocyanate, isomers and homologues | 9016-87-9 | 56<br>74.                                 |
| Diisocyanates                                        | --        | 74                                        |

**56** . If product supplied to the general public with substance  $\geq 0.1\%$ , then gloves must be provided with the product. **74** If product supplied to the industrial or professional users with total monomeric diisocyanates  $\geq 0.1\%$ , then its packaging must mention "As from 24 August 2023 adequate training is required before industrial or professional use".

#### Substance subject to authorisation per REACH Annex XIV

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

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## Export Notification requirements

This product does not contain 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 above the level that triggers a labeling obligation under Regulation (EC) No 1272/2008. Therefore this product is not subject to prior informed consent notification.

## Dangerous substance category per Seveso Directive (2012/18/EU)

P3a - FLAMMABLE AEROSOLS

## Ozone-depleting substances (ODS) regulation (EC) 2024/590

Not applicable

## Persistent Organic Pollutants

Not applicable

## REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on the marketing and use of explosives precursors

Not applicable

## Regulations on drug precursors (EC) No 111/2005 (export) and 273/2004 (internal trade)

This product does not contain any substance(s) on the Drug Precursors list.

## National regulations

### 15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

## 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

H220 - Extremely flammable gas

H280 - Contains gas under pressure; may explode if heated

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

H411 - Toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects

### Notes relating to the identification, classification and labelling of substances

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

Note U - When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.), Press. Gas (Liq.), Press. Gas (Ref. Liq.), Press. Gas (Diss.). Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2)

### Legend

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|         |                                                                                     |
|---------|-------------------------------------------------------------------------------------|
| TWA     | TWA (time-weighted average)                                                         |
| STEL    | STEL (Short Term Exposure Limit)                                                    |
| Ceiling | Ceiling Limit Value                                                                 |
| Sk*     | Skin designation                                                                    |
| SVHC    | Substance(s) of Very High Concern                                                   |
| PBT     | Persistent, Bioaccumulative, and Toxic (PBT) Chemicals                              |
| vPvB    | Very Persistent and very Bioaccumulative (vPvB) Chemicals                           |
| STOT RE | Specific target organ toxicity - Repeated exposure                                  |
| STOT SE | Specific target organ toxicity - Single exposure                                    |
| EWC     | European Waste Catalogue                                                            |
| ADR     | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| IMDG    | International Maritime Dangerous Goods (IMDG)                                       |
| IATA    | International Air Transport Association (IATA)                                      |
| RID     | Regulations concerning the International Transport of Dangerous Goods by Rail       |

## Key literature references and sources for data

No information available

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <b>Prepared By</b>                  | Product Safety & Regulatory Affairs |
| <b>Revision date</b>                | 16-Apr-2026                         |
| <b><u>Indication of changes</u></b> |                                     |

|                            |                                                                                                                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Revision Note</b>       | Not applicable.                                                                                                                                                                                                             |
| <b>Training Advice</b>     | AS FROM 24 AUGUST 2023 ADEQUATE TRAINING IS REQUIRED BEFORE INDUSTRIAL OR PROFESSIONAL USE For further information, please contact: <a href="https://www.safeusediisocyanates.eu/">https://www.safeusediisocyanates.eu/</a> |
| <b>Further information</b> | No information available                                                                                                                                                                                                    |

**This SDS complies with the requirements of UK REACH Regulations SI 2019/758 (as amended)**

## 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**