# SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830

# SOUDAFOAM GAP FILLER GUN GRADE

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

### 1.1. Product identifier

**Product name** : SOUDAFOAM GAP FILLER GUN GRADE
**Registration number REACH** : Not applicable (mixture)
**Product type REACH** : Mixture

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

**1.2.1 Relevant identified uses**

polyurethane

**1.2.2 Uses advised against**

No uses advised against known

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

**Supplier of the safety data sheet**

SOUDAL N.V.
Everdongenlaan 18-20
B-2300 Turnhout
☎ +32 14 42 42 31
🖷 +32 14 42 65 14
sds@soudal.com

**Manufacturer of the product**

SOUDAL N.V.
Everdongenlaan 18-20
B-2300 Turnhout
☎ +32 14 42 42 31
🖷 +32 14 42 65 14
sds@soudal.com

### 1.4. Emergency telephone number

24h/24h :

+32 14 58 45 45 (BIG)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

| Class | Category | Hazard statements |
|---|---|---|
| Aerosol | category 1 | H222: Extremely flammable aerosol. |
| Aerosol | category 1 | H229: Pressurised container: May burst if heated. |
| Carc. | category 2 | H351: Suspected of causing cancer. |
| Lact. | - | H362: May cause harm to breast-fed children. |
| Resp. Sens. | category 1 | H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Skin Sens. | category 1 | H317: May cause an allergic skin reaction. |
| Acute Tox. | category 4 | H332: Harmful if inhaled. |
| STOT RE | category 2 | H373: May cause damage to organs through prolonged or repeated exposure if inhaled. |
| Skin Irrit. | category 2 | H315: Causes skin irritation. |
| Eye Irrit. | category 2 | H319: Causes serious eye irritation. |
| STOT SE | category 3 | H335: May cause respiratory irritation. |
| Aquatic Chronic | category 4 | H413: May cause long lasting harmful effects to aquatic life. |

### 2.2. Label elements

Contains: polymethylene polyphenyl isocyanate; alkanes, C14-17, chloro.

**Signal word** Danger

**H-statements**

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H351 Suspected of causing cancer.

| | |
|---|---|
| H362 | May cause harm to breast-fed children. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H317 | May cause an allergic skin reaction. |
| H332 | Harmful if inhaled. |
| H373 | May cause damage to organs through prolonged or repeated exposure if inhaled. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H413 | May cause long lasting harmful effects to aquatic life. |

**P-statements**

| | |
|---|---|
| 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. |
| P308 + P313 | IF exposed or concerned: Get medical advice/attention. |
| 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/international regulation. |

**Supplemental information**

- 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.

### 2.3. Other hazards

Gas/vapour spreads at floor level: ignition hazard

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name<br>REACH Registration No | CAS No<br>EC No | Conc. (C) | Classification according to CLP | Note | Remark |
|---|---|---|---|---|---|
| propane<br>01-2119486944-21 | 74-98-6<br>200-827-9 | 1%<C<10% | Flam. Gas 1; H220<br>Press. Gas - Liquefied gas; | (1)(2)(10) | Propellant |
| dimethyl ether<br>01-2119472128-37 | 115-10-6<br>204-065-8 | 1%<C<15% | Flam. Gas 1; H220<br>Press. Gas - Liquefied gas; | (1)(2)(10) | Propellant |
| polymethylene polyphenyl isocyanate | 9016-87-9 | 10%<C<40% | Carc. 2; H351<br>Resp. Sens. 1; H334<br>Skin Sens. 1; H317<br>Acute Tox. 4; H332<br>STOT RE 2; H373<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335 | (1)(2)(8)(10)(18)(V) | Polymer |
| isobutane<br>01-2119485395-27 | 75-28-5<br>200-857-2 | 1%<C<10% | Flam. Gas 1; H220<br>Press. Gas - Liquefied gas; | (1)(2)(10)(21) | Propellant |
| alkanes, C14-17, chloro<br>01-2119519269-33 | 85535-85-9<br>287-477-0 | 1%<C<20% | Lact. ; H362<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410 | (1)(2)(8)(10) | UVCB |
| reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester<br>01-2119486772-26 | | 1%C<5% | Acute Tox. 4; H302 | (1)(10) | Constituent |

(1) For H-statements in full: see heading 16
(2) Substance with a Community workplace exposure limit
(8) Specific concentration limits, see heading 16
(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006
(18) Polymethylene polyphenyl isocyanate, contains > 0.1% MDI-isomers
(21) 1,3-butadiene <0.1%
(V) Exempted from registration under REACH (Regulation (EC) No 1907/2006, article 2 (9), polymers)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General:**

GENERAL. Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

**After inhalation:**

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

**After skin contact:**

Wash immediately with lots of water. Take victim to a doctor if irritation persists.

**After eye contact:**

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

**After ingestion:**

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Consult a doctor/medical service if you feel

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

**4.2.1 Acute symptoms**

**After inhalation:**

Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Runny nose. FOLLOWING SYMPTOMS MAY APPEAR LATER: Possible inflammation of the respiratory tract. Risk of lung oedema. Respiratory difficulties.

**After skin contact:**

Tingling/irritation of the skin.

**After eye contact:**

Irritation of the eye tissue. Lacrimation.

**After ingestion:**

Not applicable.

**4.2.2 Delayed symptoms**

No effects known.

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

If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**5.1.1 Suitable extinguishing media:**

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher.

**5.1.2 Unsuitable extinguishing media:**

Small fire: Quick-acting $CO_2$ extinguisher, Water (water can be used to control jet flame), Foam.

Major fire: Water (water can be used to control jet flame), Foam.

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

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, hydrogen chloride, carbon monoxide - carbon dioxide). Pressurised container: May burst if heated. May polymerize on exposure to temperature rise. On heating: release of toxic/combustible gases/vapours (hydrogen cyanide).

### 5.3. Advice for firefighters

**5.3.1 Instructions:**

If exposed to fire cool the closed containers by spraying with water. Physical explosion risk: extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling: persistant risk of physical explosion. Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.

**5.3.2 Special protective equipment for fire-fighters:**

Gloves (EN 374). Protective goggles (EN 166). Head/neck protection. Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: compressed air apparatus (EN 136 + EN 137).

## SECTION 6: Accidental release measures

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

Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment.

**6.1.1 Protective equipment for non-emergency personnel**

See heading 8.2

**6.1.2 Protective equipment for emergency responders**

Gloves (EN 374). Protective goggles (EN 166). Head/neck protection. Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See heading 8.2

### 6.2. Environmental precautions

Dam up the solid spill. Use appropriate containment to avoid environmental contamination.

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

Allow product to solidify and remove it by mechanical means. Carefully collect the spill/leftovers. Clean (treat) contaminated surfaces with acetone. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

### 6.4. Reference to other sections

See heading 13.

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 7.1. Precautions for safe handling

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Observe very strict hygiene - avoid contact. Remove contaminated clothing immediately.

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

**7.2.1 Safe storage requirements:**

Storage temperature: < 50 °C. Store in a cool area. Keep out of direct sunlight. Store in a dry area. Ventilation at floor level. Fireproof storeroom. Unauthorized persons are not admitted. Meet the legal requirements. Max. storage time: 1 year(s).

**7.2.2 Keep away from:**

Heat sources, ignition sources, (strong) acids, (strong) bases.

**7.2.3 Suitable packaging material:**

Aerosol.

**7.2.4 Non suitable packaging material:**

No data available

### 7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**8.1.1 Occupational exposure**

**a) Occupational exposure limit values**

If limit values are applicable and available these will be listed below.

**EU**

| | | |
|---|---|---|
| Dimethylether | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 1920 mg/m³ |

**Belgium**

| | | |
|---|---|---|
| 4,4'-Diisocyanate de diphénylméthane (MDI) | Time-weighted average exposure limit 8 h | 0.005 ppm |
| | Time-weighted average exposure limit 8 h | 0.052 mg/m³ |
| Hydrocarbures aliphatiques sous forme gazeuse: (Alcanes C1-C3) | Time-weighted average exposure limit 8 h | 1000 ppm |
| | Short time value | 980 ppm |
| | Short time value | 2370 mg/m³ |
| Oxyde de diméthyle | Time-weighted average exposure limit 8 h | 1000 ppm |
| | Time-weighted average exposure limit 8 h | 1920 mg/m³ |

**The Netherlands**

| | | |
|---|---|---|
| Dimethylether | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 496 ppm |
| | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 950 mg/m³ |
| | Short time value (Public occupational exposure limit value) | 783 ppm |
| | Short time value (Public occupational exposure limit value) | 1500 mg/m³ |

**France**

| | | |
|---|---|---|
| 4,4'-Diisocyanate de diphénylméthane | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 0.01 ppm |
| | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 0.1 mg/m³ |
| | Short time value (VL: Valeur non réglementaire indicative) | 0.02 ppm |
| | Short time value (VL: Valeur non réglementaire indicative) | 0.2 mg/m³ |
| Oxyde de diméthyle | Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative) | 1920 mg/m³ |

**Germany**

| | | |
|---|---|---|
| 4,4'-Methylendiphenyldiisocyanat | Time-weighted average exposure limit 8 h (TRGS 900) | 0.05 mg/m³ |
| Chloralkane, C14-17 (Chlorierte Paraffine C14-17 ) | Time-weighted average exposure limit 8 h (TRGS 900) | 0.3 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 6 mg/m³ |
| Dimethylether | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 1900 mg/m³ |
| Isobutan | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 2400 mg/m³ |
| pMDI (als MDI berechnet) | Time-weighted average exposure limit 8 h (TRGS 900) | 0.05 mg/m³ |
| Propan | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 1800 mg/m³ |

**UK**

| | | |
|---|---|---|
| Dimethyl ether | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 400 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 766 mg/m³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 500 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 958 mg/m³ |
| Isocyanates, all (as -NCO) Except methyl isocyanate | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 0.02 mg/m³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 0.07 mg/m³ |

**USA (TLV-ACGIH)**

| | | |
|---|---|---|
| Butane, all isomers | Short time value (TLV - Adopted Value) | 1000 ppm |
| Methylene bisphenyl isocyanate (MDI) | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 0.005 ppm |

**b) National biological limit values**

If limit values are applicable and available these will be listed below.

**8.1.2 Sampling methods**

| Product name | Test | Number |
|---|---|---|
| Isocyanates | NIOSH | 5521 |
| Isocyanates | NIOSH | 5522 |

**8.1.3 Applicable limit values when using the substance or mixture as intended**

If limit values are applicable and available these will be listed below.

**8.1.4 Threshold values**

**DNEL/DMEL - Workers**

alkanes, C14-17, chloro

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|---|---|---|---|
| DNEL | Long-term systemic effects inhalation | 6.7 mg/m³ | |
| | Long-term systemic effects dermal | 47.9 mg/kg bw/day | |

reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|---|---|---|---|
| DNEL | Long-term systemic effects inhalation | 8.2 mg/m³ | |
| | Acute systemic effects inhalation | 22.6 mg/m³ | |
| | Long-term systemic effects dermal | 2.91 mg/kg bw/day | |

**DNEL/DMEL - General population**

alkanes, C14-17, chloro

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|---|---|---|---|
| DNEL | Long-term systemic effects inhalation | 2 mg/m³ | |
| | Long-term systemic effects dermal | 28.75 mg/kg bw/day | |
| | Long-term systemic effects oral | 0.58 mg/kg bw/day | |

reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|---|---|---|---|
| DNEL | Long-term systemic effects inhalation | 1.45 mg/m³ | |
| | Acute systemic effects inhalation | 5.6 mg/m³ | |
| | Long-term systemic effects dermal | 1.04 mg/kg bw/day | |
| | Long-term systemic effects oral | 0.52 mg/kg bw/day | |
| | Acute systemic effects oral | 2 mg/kg bw/day | |

**PNEC**

alkanes, C14-17, chloro

| Compartments | Value | Remark |
|---|---|---|
| Fresh water | 1 µg/l | |
| Marine water | 0.2 µg/l | |
| STP | 80 mg/l | |
| Fresh water sediment | 13 mg/kg sediment dw | |
| Marine water sediment | 2.6 mg/kg sediment dw | |
| Soil | 11.9 mg/kg soil dw | |
| Oral | 10 mg/kg food | |

reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

| Compartments | Value | Remark |
|---|---|---|
| Fresh water | 0.32 mg/l | |
| Aqua (intermittent releases) | 0.51 mg/l | |
| Marine water | 0.032 mg/l | |
| STP | 19.1 mg/l | |
| Fresh water sediment | 11.5 mg/kg sediment dw | |
| Marine water sediment | 1.15 mg/kg sediment dw | |
| Soil | 0.34 mg/kg soil dw | |
| Oral | 11.6 mg/kg food | |

**8.1.5 Control banding**

If applicable and available it will be listed below.

## 8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

**8.2.1 Appropriate engineering controls**

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly.

**8.2.2 Individual protection measures, such as personal protective equipment**

Observe very strict hygiene - avoid contact. Do not eat, drink or smoke during work.

a) Respiratory protection:

Full face mask with filter type A at conc. in air > exposure limit.

b) Hand protection:

Protective gloves against chemicals (EN 374).

| Materials | Measured breakthrough time | Remark | Protection index |
|---|---|---|---|
| LDPE (Low Density Poly Ethylene) | > 10 minutes | 0.025 mm | Class 1 |

c) Eye protection:

Protective goggles (EN 166).

d) Skin protection:

Head/neck protection. Protective clothing (EN 14605 or EN 13034).

**8.2.3 Environmental exposure controls:**

See headings 6.2, 6.3 and 13

# SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical form | Aerosol |
| Odour | Characteristic odour |
| Odour threshold | No data available |
| Colour | Variable in colour, depending on the composition |
| Particle size | Not applicable |
| Explosion limits | No data available |
| Flammability | Extremely flammable aerosol. |
| Log Kow | Not applicable (mixture) |
| Dynamic viscosity | No data available |
| Kinematic viscosity | No data available |
| Melting point | No data available |
| Boiling point | No data available |
| Evaporation rate | No data available |
| Relative vapour density | > 1 |
| Vapour pressure | In the pressurized container the vapour pressure exceeds 500 kPa. After foam release, the vapour pressure is very low (not declared) |
| Solubility | Organic solvents ; soluble |
| | Water ; insoluble |
| Relative density | 0.95 ; 20 °C |
| Decomposition temperature | No data available |
| Auto-ignition temperature | No data available |
| Flash point | Not applicable |
| Explosive properties | No chemical group associated with explosive properties |
| Oxidising properties | No chemical group associated with oxidising properties |
| pH | No data available |

## 9.2. Other information

| | |
|---|---|
| Absolute density | 950 kg/m³ ; 20 °C |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity
May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard. No data available.

### 10.2. Chemical stability
Stable under normal conditions.

### 10.3. Possibility of hazardous reactions
May polymerize with many compounds e.g.: (strong) bases and amines. Reacts violently with (some) acids/bases.

### 10.4. Conditions to avoid
**Precautionary measures**
Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks.

### 10.5. Incompatible materials
(strong) acids, (strong) bases.

### 10.6. Hazardous decomposition products
On heating: release of toxic/combustible gases/vapours (hydrogen cyanide). On burning: release of toxic and corrosive gases/vapours (nitrous vapours, hydrogen chloride, carbon monoxide - carbon dioxide).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects
**11.1.1 Test results**

**Acute toxicity**

SOUDAFOAM GAP FILLER GUN GRADE

No (test)data on the mixture available

Judgement is based on the relevant ingredients

polymethylene polyphenyl isocyanate

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|---|---|---|---|---|---|---|---|
| Oral | LD50 | | > 10000 mg/kg | | Rat | Literature study | |
| Dermal | LD50 | | > 5000 mg/kg | | Rabbit | Literature study | |
| Inhalation (vapours) | LC50 | | 11 mg/l | 4 h | | Literature | |

alkanes, C14-17, chloro

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|---|---|---|---|---|---|---|---|
| Oral | LD50 | | > 4000 mg/kg bw | | Rat (male / female) | Experimental value | |
| Dermal | LD50 | | > 13500 mg/kg bw | 24 h | Rabbit | Read-across | |
| Inhalation (vapours) | LC50 | | > 48.170 mg/l air | 1 h | Rat | Read-across | |

reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|---|---|---|---|---|---|---|---|
| Oral | LD50 | EU Method B.1 | 632 mg/kg bw | | Rat (female) | Experimental value | |
| Dermal | LD50 | OECD 402 | > 2000 mg/kg bw | 24 h | Rat (male / female) | Experimental value | |
| Inhalation (aerosol) | LC50 | OECD 403 | > 7 mg/l | 4 h | Rat (male / female) | Experimental value | |

**Conclusion**

Harmful if inhaled.

Not classified as acute toxic in contact with skin

Not classified as acute toxic if swallowed

**Corrosion/irritation**

SOUDAFOAM GAP FILLER GUN GRADE

No (test)data on the mixture available

Classification is based on the relevant ingredients

polymethylene polyphenyl isocyanate

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|---|---|---|---|---|---|---|---|
| Eye | Irritating; category 2 | | | | | Literature study | |
| Skin | Irritating; category 2 | | | | | Literature study | |
| Inhalation | Irritating; STOT SE cat.3 | | | | | Literature study | |

alkanes, C14-17, chloro

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|---|---|---|---|---|---|---|---|
| Eye | Slightly irritating | | | | Rabbit | Expert judgement | |
| Skin | Slightly irritating | OECD 404 | 4 h | 24; 72 hours | Rabbit | Expert judgement | |

reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|---|---|---|---|---|---|---|---|
| Eye | Not irritating | OECD 405 | 24 h | 24; 48; 72 hours | Rabbit | Experimental value | |
| Skin | Not irritating | OECD 404 | 4 h | 24; 48; 72 hours | Rabbit | Experimental value | |

**Conclusion**

Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.

**Respiratory or skin sensitisation**

SOUDAFOAM GAP FILLER GUN GRADE

No (test)data on the mixture available
Classification is based on the relevant ingredients
polymethylene polyphenyl isocyanate

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|---|---|---|---|---|---|---|---|
| Skin | Sensitizing; category 1 | | | | | Literature study | |
| Inhalation | Sensitizing; category 1 | | | | | Literature study | |

alkanes, C14-17, chloro

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|---|---|---|---|---|---|---|---|
| Skin | Not sensitizing | Guinea pig maximisation test | | 48 hours | Guinea pig | Experimental value | |

reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|---|---|---|---|---|---|---|---|
| Skin | Not sensitizing | OECD 429 | | | Mouse (female) | Experimental value | |

**Conclusion**

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

**Specific target organ toxicity**

SOUDAFOAM GAP FILLER GUN GRADE

No (test)data on the mixture available
Classification is based on the relevant ingredients
polymethylene polyphenyl isocyanate

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|---|---|---|---|---|---|---|---|---|
| Inhalation | | | STOT RE cat.2 | | | | | Literature study |

alkanes, C14-17, chloro

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|---|---|---|---|---|---|---|---|---|
| Oral (diet) | NOAEL | Equivalent to OECD 408 | 300 ppm | | No effect | 13 weeks (daily) | Rat (male / female) | Experimental value |
| Oral (diet) | NOAEL | Equivalent to OECD 408 | 23 mg/kg bw/day - 24.6 mg/kg bw/day | | No effect | 13 weeks (daily) | Rat (male / female) | Experimental value |
| Dermal | | | | | | | | Data waiving |
| Inhalation | | | | | | | | Data waiving |

reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|---|---|---|---|---|---|---|---|---|
| Oral (diet) | NOAEL | Subchronic toxicity test | 171 mg/kg bw/day | | No effect | 13 weeks (daily) | Rat (female) | Experimental value |
| Oral (diet) | LOAEL | Subchronic toxicity test | 52 mg/kg bw/day | Liver | Weight gain | 13 weeks (daily) | Rat (male) | Experimental value |
| Inhalation | Dose level | | 0.586 mg/l air | | No effect | | Mouse (male) | Experimental value |

**Conclusion**

May cause damage to organs through prolonged or repeated exposure if inhaled.
Not classified as sub-chronically toxic in contact with skin
Not classified as sub-chronically toxic if swallowed

**Mutagenicity (in vitro)**

SOUDAFOAM GAP FILLER GUN GRADE

No (test)data on the mixture available
Classification is based on the relevant ingredients

alkanes, C14-17, chloro

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|---|---|---|---|---|
| Negative with metabolic activation, negative without metabolic activation | OECD 471 | Bacteria (S.typhimurium) | No effect | Experimental value | |

reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|---|---|---|---|---|
| Negative with metabolic activation, negative without metabolic activation | OECD 482 | Rat liver cells | | Experimental value | |
| Negative without metabolic activation, positive with metabolic activation | OECD 476 | Mouse (lymphoma L5178Y cells) | | Experimental value | |

**Mutagenicity (in vivo)**

SOUDAFOAM GAP FILLER GUN GRADE

No (test)data on the mixture available
Classification is based on the relevant ingredients

alkanes, C14-17, chloro

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|---|---|---|---|---|---|
| Negative | Equivalent to OECD 475 | 5 day(s) | Rat (male) | Bone marrow | Experimental value |
| Negative | Equivalent to OECD 474 | | Mouse (male / female) | Bone marrow | Experimental value |

reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|---|---|---|---|---|---|
| Negative | OECD 474 | | Mouse (male / female) | Bone marrow | Experimental value |

**Conclusion**

Not classified for mutagenic or genotoxic toxicity

**Carcinogenicity**

SOUDAFOAM GAP FILLER GUN GRADE

No (test)data on the mixture available
Classification is based on the relevant ingredients

polymethylene polyphenyl isocyanate

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|---|---|---|---|---|---|---|---|
| Unknown | | | category 2 | | | | | Literature study |

alkanes, C14-17, chloro

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|---|---|---|---|---|---|---|---|
| Oral | LOAEL | Equivalent to OECD 451 | 312 mg/kg bw/day | 104 weeks (5 days / week) | Rat (male / female) | Carcinogenicity | Liver; kidney | Read-across |
| Oral | LOAEL | Equivalent to OECD 451 | 312 mg/kg bw/day | 103 weeks (5 days / week) | Rat (male / female) | Carcinogenicity | Thyroid | Read-across |

reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|---|---|---|---|---|---|---|---|
| Unknown | | | | | | | | Data waiving |

**Conclusion**

Suspected of causing cancer.

**Reproductive toxicity**

SOUDAFOAM GAP FILLER GUN GRADE

No (test)data on the mixture available

Classification is based on the relevant ingredients

alkanes, C14-17, chloro

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|---|---|---|---|---|---|---|---|
| Developmental toxicity | NOAEL | Equivalent to OECD 414 | 5000 mg/kg bw/day | 14 days (gestation, daily) | Rat | No effect | | Experimental value |
| Maternal toxicity | NOAEL | Equivalent to OECD 414 | 500 mg/kg bw/day | 13 days (gestation, daily) | Rat | No effect | | Experimental value |
| Effects on fertility | NOAEL (P) | OECD 421 | 100 mg/kg bw/day | 9 week(s) | Rat (male) | No effect | Male reproductive organ | Experimental value |
| | NOAEL (P) | OECD 421 | 100 mg/kg bw/day | 11 week(s) - 12 week(s) | Rat (female) | No effect | Female reproductive organ | Experimental value |
| Effects on lactation | LOAEL | | 3125 mg/kg bw | | Rat (male / female) | Increased mortality in the pups | | Experimental value |

reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|---|---|---|---|---|---|---|---|
| Developmental toxicity (Oral (stomach tube)) | NOAEL | OECD 414 | 500 mg/kg bw/day | 21 day(s) | Rabbit | No effect | | Experimental value |
| Maternal toxicity (Oral (stomach tube)) | NOAEL | OECD 414 | 500 mg/kg bw/day | 21 day(s) | Rabbit | No effect | | Experimental value |
| Effects on fertility (Oral (diet)) | LOAEL | OECD 416 | 99 mg/kg bw/day | | Rat (male / female) | Weight changes | Female reproductive organ | Experimental value |

**Conclusion**

May cause harm to breast-fed children.

Not classified for reprotoxic or developmental toxicity

**Toxicity other effects**

SOUDAFOAM GAP FILLER GUN GRADE

No (test)data on the mixture available

alkanes, C14-17, chloro

| Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|---|---|---|---|---|---|---|---|
| | Other | | Skin | Skin dryness or cracking | | Rat | Experimental value Skin |

**Chronic effects from short and long-term exposure**

SOUDAFOAM GAP FILLER GUN GRADE

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Feeling of weakness. Itching. Skin rash/inflammation. May stain the skin. Dry skin. Coughing. Possible inflammation of the respiratory tract. Respiratory difficulties.

## SECTION 12: Ecological information

### 12.1. Toxicity

SOUDAFOAM GAP FILLER GUN GRADE

No (test)data on the mixture available

Classification is based on the relevant ingredients

polymethylene polyphenyl isocyanate

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|---|---|---|---|---|---|---|---|
| Acute toxicity other aquatic organisms | LC50 | | > 1000 mg/l | 96 h | | | | Literature study |
| Toxicity aquatic micro-organisms | EC50 | OECD 209 | > 100 mg/l | | Activated sludge | | | Literature study |

alkanes, C14-17, chloro

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|---|---|---|---|---|---|---|---|
| Acute toxicity fishes | LC50 | Equivalent to OECD 203 | > 5000 mg/l | 96 h | Alburnus alburnus | Static system | Brackish water | Experimental value; Nominal concentration |
| Acute toxicity crustacea | EC50 | OECD 202 | 0.006 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; GLP |
| Toxicity algae and other aquatic plants | NOEC | OECD 201 | 0.1 mg/l | 96 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; GLP |
| | ErC50 | OECD 201 | > 3.2 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; GLP |
| Long-term toxicity fish | NOEC | Equivalent to OECD 204 | > 125 µg/l | 14 day(s) | Alburnus alburnus | Semi-static system | Brackish water | Experimental value |
| Long-term toxicity aquatic crustacea | NOEC | OECD 202 | 0.01 mg/l | 21 day(s) | Daphnia magna | Static system | Fresh water | Experimental value |

| | Parameter | Method | Value | Duration | Species | Value determination |
|---|---|---|---|---|---|---|
| Toxicity soil macro-organisms | NOEC | OECD 222 | 900 mg/kg soil dw | 56 day(s) | Eisenia fetida | Experimental value |
| Toxicity soil micro-organisms | NOEC | OECD 216 | ≥ 400 mg/kg soil dw | 28 day(s) | Soil micro-organisms | Experimental value |
| | EC50 | OECD 216 | > 400 mg/kg soil dw | 28 day(s) | Soil micro-organisms | Experimental value |
| Toxicity terrestrial plants | NOEC | OECD 208 | ≥ 5000 mg/l | 28 day(s) | Brassica napus | Experimental value |
| Toxicity birds | LC50 | Equivalent to OECD 205 | > 24603 mg/kg food | 5 day(s) | Phasianus colchicus | Experimental value |
| | NOEC | Equivalent to OECD 205 | 24603 mg/kg food | 5 day(s) | Phasianus colchicus | Experimental value |

reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|---|---|---|---|---|---|---|---|
| Acute toxicity fishes | LC50 | Other | 56.2 mg/l | 96 h | Brachydanio rerio | Static system | Fresh water | Experimental value; GLP |
| Acute toxicity crustacea | LC50 | | 131 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; Locomotor effect |
| Toxicity algae and other aquatic plants | ErC50 | OECD 201 | 82 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; GLP |
| Long-term toxicity fish | | | | | | | | Data waiving |
| Long-term toxicity aquatic crustacea | NOEC | OECD 202 | 32 mg/l | 21 day(s) | Daphnia magna | Semi-static system | Fresh water | Experimental value; GLP |
| Toxicity aquatic micro-organisms | EC50 | ISO 8192 | 784 mg/l | 3 h | Activated sludge | Static system | Fresh water | Experimental value; GLP |

**Conclusion**

May cause long lasting harmful effects to aquatic life.

## 12.2. Persistence and degradability

polymethylene polyphenyl isocyanate

**Biodegradation water**

| Method | Value | Duration | Value determination |
|---|---|---|---|
| OECD 302C: Inherent Biodegradability: Modified MITI Test (II) | < 60 % | | Experimental value |

alkanes, C14-17, chloro

**Biodegradation water**

| Method | Value | Duration | Value determination |
|---|---|---|---|
| OECD 301D: Closed Bottle Test | 37 %; GLP | 28 day(s) | Experimental value |

**Biodegradation soil**

| Method | Value | Duration | Value determination |
|---|---|---|---|
| | 51 % - 57 % | 36 h | Experimental value |

reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

**Biodegradation water**

| Method | Value | Duration | Value determination |
|---|---|---|---|
| OECD 301E: Modified OECD Screening Test | 14 %; GLP | 28 day(s) | Experimental value |

**Phototransformation air (DT50 air)**

| Method | Value | Conc. OH-radicals | Value determination |
|---|---|---|---|
| AOPWIN v1.92 | 8.6 h | 500000 /cm³ | Calculated value |

**Half-life water (t1/2 water)**

| Method | Value | Primary degradation/mineralisation | Value determination |
|---|---|---|---|
| EU Method C.7 | > 1 year(s) | Primary degradation | Experimental value |

**Conclusion**

Contains non readily biodegradable component(s)

## 12.3. Bioaccumulative potential

SOUDAFOAM GAP FILLER GUN GRADE

**Log Kow**

| Method | Remark | Value | Temperature | Value determination |
|---|---|---|---|---|
| | Not applicable (mixture) | | | |

polymethylene polyphenyl isocyanate

**BCF fishes**

| Parameter | Method | Value | Duration | Species | Value determination |
|---|---|---|---|---|---|
| BCF | | 1 | | Pisces | Literature study |

**Log Kow**

| Method | Remark | Value | Temperature | Value determination |
|---|---|---|---|---|
| | No data available | | | |

alkanes, C14-17, chloro

**BCF fishes**

| Parameter | Method | Value | Duration | Species | Value determination |
|---|---|---|---|---|---|
| BCF | OECD 305 | 6660 | 35 day(s) | Oncorhynchus mykiss | Experimental value |

**Log Kow**

| Method | Remark | Value | Temperature | Value determination |
|---|---|---|---|---|
| | | 5.47 - 8.01 | | Experimental value |
| | | > 5 | | |

reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

**BCF fishes**

| Parameter | Method | Value | Duration | Species | Value determination |
|---|---|---|---|---|---|
| BCF | OECD 305 | 0.8 - 14; Fresh | 6 week(s) | Cyprinus carpio | Experimental value |

**Log Kow**

| Method | Remark | Value | Temperature | Value determination |
|---|---|---|---|---|
| EU Method A.8 | | 2.68 | 30 °C | Experimental value |

**Conclusion**

Contains bioaccumulative component(s)

## 12.4. Mobility in soil

alkanes, C14-17, chloro

**(log) Koc**

| Parameter | Method | Value | Value determination |
|---|---|---|---|
| log Koc | | 5 | Experimental value |

reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

**(log) Koc**

| Parameter | Method | Value | Value determination |
|---|---|---|---|
| log Koc | EU Method C.19 | 2.76 | Experimental value |

**Percent distribution**

| Method | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|---|---|---|---|---|---|---|
| Mackay level I | 0.01 % | 0 % | 3.55 % | 3.52 % | 92.89 % | Read-across |

**Conclusion**

Contains component(s) that adsorb(s) into the soil

Contains component(s) with potential for mobility in the soil

## 12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

### 12.6. Other adverse effects

SOUDAFOAM GAP FILLER GUN GRADE

**Greenhouse gases**

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

**Ozone-depleting potential (ODP)**

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

polymethylene polyphenyl isocyanate

**Greenhouse gases**

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 13.1. Waste treatment methods

**13.1.1 Provisions relating to waste**

**European Union**

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.
Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).
08 05 01* (wastes not otherwise specified in 08: waste isocyanates).
16 05 04* (gases in pressure containers and discarded chemicals: gases in pressure containers (including halons) containing hazardous substances).
Depending on branch of industry and production process, also other waste codes may be applicable.

**13.1.2 Disposal methods**

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Specific treatment. Do not discharge into drains or the environment.

**13.1.3 Packaging/Container**

**European Union**

Waste material code packaging (Directive 2008/98/EC).
15 01 10* (packaging containing residues of or contaminated by dangerous substances).

## SECTION 14: Transport information

### Road (ADR)

14.1. UN number

| | |
|---|---|
| UN number | 1950 |

14.2. UN proper shipping name

| | |
|---|---|
| Proper shipping name | Aerosols |

14.3. Transport hazard class(es)

| | |
|---|---|
| Hazard identification number | |
| Class | 2 |
| Classification code | 5F |

14.4. Packing group

| | |
|---|---|
| Packing group | |
| Labels | 2.1 |

14.5. Environmental hazards

| | |
|---|---|
| Environmentally hazardous substance mark | no |

14.6. Special precautions for user

| | |
|---|---|
| Special provisions | 190 |
| Special provisions | 327 |
| Special provisions | 344 |
| Special provisions | 625 |
| Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

### Rail (RID)

14.1. UN number

| | |
|---|---|
| UN number | 1950 |

14.2. UN proper shipping name

| | |
|---|---|
| Proper shipping name | Aerosols |

14.3. Transport hazard class(es)

| | |
|---|---|
| Hazard identification number | 23 |
| Class | 2 |
| Classification code | 5F |

14.4. Packing group

| | |
|---|---|
| Packing group | |
| Labels | 2.1 |

14.5. Environmental hazards

| | |
|---|---|
| Environmentally hazardous substance mark | no |

14.6. Special precautions for user

| | |
|---|---|
| Special provisions | 190 |
| Special provisions | 327 |
| Special provisions | 344 |
| Special provisions | 625 |
| Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

## Inland waterways (ADN)

14.1. UN number

| | |
|---|---|
| UN number | 1950 |

14.2. UN proper shipping name

| | |
|---|---|
| Proper shipping name | Aerosols |

14.3. Transport hazard class(es)

| | |
|---|---|
| Class | 2 |
| Classification code | 5F |

14.4. Packing group

| | |
|---|---|
| Packing group | |
| Labels | 2.1 |

14.5. Environmental hazards

| | |
|---|---|
| Environmentally hazardous substance mark | no |

14.6. Special precautions for user

| | |
|---|---|
| Special provisions | 190 |
| Special provisions | 327 |
| Special provisions | 344 |
| Special provisions | 625 |
| Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

## Sea (IMDG/IMSBC)

14.1. UN number

| | |
|---|---|
| UN number | 1950 |

14.2. UN proper shipping name

| | |
|---|---|
| Proper shipping name | aerosols |

14.3. Transport hazard class(es)

| | |
|---|---|
| Class | 2.1 |

14.4. Packing group

| | |
|---|---|
| Packing group | |
| Labels | 2.1 |

14.5. Environmental hazards

| | |
|---|---|
| Marine pollutant | - |
| Environmentally hazardous substance mark | no |

14.6. Special precautions for user

| | |
|---|---|
| Special provisions | 190 |
| Special provisions | 277 |
| Special provisions | 327 |
| Special provisions | 344 |
| Special provisions | 381 |
| Special provisions | 63 |
| Special provisions | 959 |
| Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

| | |
|---|---|
| Annex II of MARPOL 73/78 | Not applicable |

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

14.1. UN number

| | |
|---|---|
| UN number | 1950 |

14.2. UN proper shipping name

| | |
|---|---|
| Proper shipping name | Aerosols, flammable |

14.3. Transport hazard class(es)

| | |
|---|---|
| Class | 2.1 |

14.4. Packing group

| | |
|---|---|
| Packing group | |
| Labels | 2.1 |

14.5. Environmental hazards

| | |
|---|---|
| Environmentally hazardous substance mark | no |

14.6. Special precautions for user

| | |
|---|---|
| Special provisions | A145 |
| Special provisions | A167 |
| Special provisions | A802 |

Passenger and cargo transport

| | |
|---|---|
| Limited quantities: maximum net quantity per packaging | 30 kg G |

## SECTION 15: Regulatory information

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

**European legislation:**

VOC content Directive 2010/75/EU

| VOC content | Remark |
|---|---|
| 23.41 % - 24.06 % | |
| 222.35 g/l - 228.57 g/l | |

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

| | Designation of the substance, of the group of substances or of the mixture | Conditions of restriction |
|---|---|---|
| · polymethylene polyphenyl isocyanate<br>· alkanes, C14-17, chloro<br>· reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester | Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008:<br>(a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F;<br>(b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10;<br>(c) hazard class 4.1;<br>(d) hazard class 5.1. | 1. Shall not be used in:<br>— ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,<br>— tricks and jokes,<br>— games for one or more participants, or any article intended to be used as such, even with ornamental aspects,<br>2. Articles not complying with paragraph 1 shall not be placed on the market.<br>3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:<br>— can be used as fuel in decorative oil lamps for supply to the general public, and,<br>— present an aspiration hazard and are labelled with H304,<br>4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).<br>5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:<br>a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: “Keep lamps filled with this liquid out of the reach of children”; and, by 1 December 2010, “Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life- threatening lung damage”;<br>b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: “Just a sip of grill lighter may lead to life threatening lung damage”;<br>c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.<br>6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled H304, intended for supply to the general public.<br>7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.' |
| · polymethylene polyphenyl isocyanate | Methylenediphenyl diisocyanate (MDI) including the following specific isomers: 4,4’-Methylenediphenyl diisocyanate; 2,4’-Methylenediphenyl diisocyanate; 2,2’-Methylenediphenyl diisocyanate | 1. Shall not be placed on the market after 27 December 2010, as a constituent of mixtures in concentrations equal to or greater than 0,1 % by weight of MDI for supply to the general public, unless suppliers shall ensure before the placing on the market that the packaging:<br>(a) contains protective gloves which comply with the requirements of Council Directive 89/686/EEC;<br>(b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures:<br>“— Persons already sensitised to diisocyanates may develop allergic reactions when using this product.<br>— Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.<br>— 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.<br>2. By way of derogation, paragraph 1(a) shall not apply to hot melt adhesives. |

**National legislation Belgium**

SOUDAFOAM GAP FILLER GUN GRADE

No data available

**National legislation The Netherlands**

SOUDAFOAM GAP FILLER GUN GRADE

| | |
|---|---|
| Waterbezwaarlijkheid | Z (2); Algemene Beoordelingsmethodiek (ABM) |

alkanes, C14-17, chloro

| | |
|---|---|
| SZW - Lijst van voor de voortplanting giftige stoffen (borstvoeding) | Alkanen, C14-C17, chloor; May cause harm to breastfed babies |

**National legislation France**

SOUDAFOAM GAP FILLER GUN GRADE

No data available

polymethylene polyphenyl isocyanate

| | |
|---|---|
| Catégorie cancérogène | 4,4'-Diisocyanate de diphénylméthane; C2 |

**National legislation Germany**

SOUDAFOAM GAP FILLER GUN GRADE

| | |
|---|---|
| WGK | 2; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4) |

polymethylene polyphenyl isocyanate

| | |
|---|---|
| TA-Luft | 5.2.5/I |
| TRGS900 - Risiko der Fruchtschädigung | 4,4'-Methylendiphenyldiisocyanat; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden |
| | pMDI (als MDI berechnet); Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden |
| Sensibilisierende Stoffe | 4,4'-Methylendiphenyldiisocyanat; Sah; Atemwegssensibilisierende Stoffe Und Hautsensibilisierende Stoffe, an beiden Zielorganen Allergien auslösende |
| | pMDI (als MDI berechnet); Sa; Atemwegssensibilisierende Stoffe |
| TRGS905 - Krebserzeugend | Techn. ("Polymeres") MDI (pMDI) (in Form atembarer Aerosole, A-Fraktion); 2 |
| TRGS905 - Erbgutverändernd | Techn. ("Polymeres") MDI (pMDI) (in Form atembarer Aerosole, A-Fraktion); - |
| TRGS905 - Fruchtbarkeitsgefährdend | Techn. ("Polymeres") MDI (pMDI) (in Form atembarer Aerosole, A-Fraktion); - |
| TRGS905 - Fruchtschädigend | Techn. ("Polymeres") MDI (pMDI) (in Form atembarer Aerosole, A-Fraktion); - |
| Hautresorptive Stoffe | 4,4'-Methylendiphenyldiisocyanat; H; Hautresorptiv |
| | pMDI (als MDI berechnet); H; Hautresorptiv |

alkanes, C14-17, chloro

| | |
|---|---|
| TA-Luft | 5.2.5/I |
| TRGS900 - Risiko der Fruchtschädigung | Chloralkane, C14-17 (Chlorierte Paraffine C14-17 ); Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden |
| Hautresorptive Stoffe | Chloralkane, C14-17 (Chlorierte Paraffine C14-17 ); H; Hautresorptiv |

reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

| | |
|---|---|
| TA-Luft | 5.2.5 |

**National legislation United Kingdom**

SOUDAFOAM GAP FILLER GUN GRADE

No data available

polymethylene polyphenyl isocyanate

| | |
|---|---|
| Skin Sensitisation | Isocyanates, all (as -NCO) Except methyl isocyanate; Sen |
| Respiratory sensitisation | Isocyanates, all (as -NCO) Except methyl isocyanate; Sen |

**Other relevant data**

SOUDAFOAM GAP FILLER GUN GRADE

No data available

polymethylene polyphenyl isocyanate

| | |
|---|---|
| IARC - classification | 3; Polymethylene polyphenyl isocyanate |

alkanes, C14-17, chloro

| | |
|---|---|
| IARC - classification | 2B; Chlorinated paraffins |

### 15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

## SECTION 16: Other information

**Full text of any H-statements referred to under heading 3:**

H220 Extremely flammable gas.
H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
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.
H362 May cause harm to breast-fed children.

H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

| | |
|---|---|
| (*) | INTERNAL CLASSIFICATION BY BIG |
| ADI | Acceptable daily intake |
| AOEL | Acceptable operator exposure level |
| CLP (EU-GHS) | Classification, labelling and packaging (Globally Harmonised System in Europe) |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No Effect Level |
| EC50 | Effect Concentration 50 % |
| ErC50 | EC50 in terms of reduction of growth rate |
| LC50 | Lethal Concentration 50 % |
| LD50 | Lethal Dose 50 % |
| NOAEL | No Observed Adverse Effect Level |
| NOEC | No Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent, Bioaccumulative & Toxic |
| PNEC | Predicted No Effect Concentration |
| STP | Sludge Treatment Process |
| vPvB | very Persistent & very Bioaccumulative |

**M-factor**

| | | | |
|---|---|---|---|
| alkanes, C14-17, chloro | 100 | Acute | BIG |
| alkanes, C14-17, chloro | 10 | Chronic (NRD) | BIG |

**Specific concentration limits CLP**

| | | | |
|---|---|---|---|
| polymethylene polyphenyl isocyanate | C ≥ 0.1 % | Resp. Sens. 1; H334 | analogous to Annex VI |
| | C ≥ 5 % | Skin Irrit. 2; H315 | analogous to Annex VI |
| | C ≥ 5 % | Eye Irrit. 2; H319 | analogous to Annex VI |
| | C ≥ 5 % | STOT SE 3; H335 | analogous to Annex VI |
| alkanes, C14-17, chloro | 1,0 % ≤ C ≤ 20 % | Lact. H362 | FEICA Position Paper on the classification and labelling of One Component Foam (OCF) containing Mid Chained Chlorinated Paraffin (MCCP) March 7th 2014) |
| | 1,0 % ≤ C ≤ 20 % | EUH066 | FEICA Position Paper on the classification and labelling of One Component Foam (OCF) containing Mid Chained Chlorinated Paraffin (MCCP) March 7th 2014) |
| | 0,25 % ≤ C ≤ 20 % | Aquatic Chronic 4; H413 | FEICA Position Paper on the classification and labelling of One Component Foam (OCF) containing Mid Chained Chlorinated Paraffin (MCCP) March 7th 2014) |

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