



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

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Ceresit 750G FOAM-FIX

SDS No. : 292251  
V005.2

Revision: 30.05.2015

printing date: 08.07.2015

Replaces version from: 12.05.2015

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

#### 1.1. Product identifier

Ceresit 750G FOAM-FIX

#### Contains:

Diphenylmethane diisocyanate, isomers and homologues  
Alkanes, C14-17, chloro

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

Intended use:

Foam, 1-component with propellant gas

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

Henkel AG & Co. KGaA  
Henkelstr. 67  
40589 Düsseldorf

Germany

Phone: +49 (211) 797 0

Fax-no.: +49 (211) 798 4008

ua-productsafety.uk@uk.henkel.com

#### 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: technical.services@henkel.co.uk

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification (CLP):**

|   |            |
|---|------------|
| Flammable aerosols  | Category 1 |
| H222 Extremely flammable aerosol.   |            |
| H229 Pressurised container: May burst if heated.                                |            |
| Skin irritation   | Category 2 |
| H315 Causes skin irritation.  |            |
| Skin sensitizer   | Category 1 |
| H317 May cause an allergic skin reaction.                                       |            |
| Serious eye irritation  | Category 2 |
| H319 Causes serious eye irritation.   |            |
| Respiratory sensitizer  | Category 1 |
| H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. |            |
| Specific target organ toxicity - single exposure                                | Category 3 |
| H335 May cause respiratory irritation.  |            |
| Target organ: respiratory tract irritation                                      |            |
| Carcinogenicity   | Category 2 |
| H351 Suspected of causing cancer.   |            |
| Effects on or via lactation   |            |
| H362 May cause harm to breast-fed children.                                     |            |
| Specific target organ toxicity - repeated exposure                              | Category 2 |
| H373 May cause damage to organs through prolonged or repeated exposure.         |            |
| Chronic hazards to the aquatic environment                                      | Category 4 |
| H413 May cause long lasting harmful effects to aquatic life.                    |            |

**2.2. Label elements**

**Label elements (CLP):**

**Hazard pictogram:**



**Signal word:**

Danger

**Hazard statement:**

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.  
 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.  
 H413 May cause long lasting harmful effects to aquatic life.

|  |   |
|--|---|
| <b>Precautionary statement:</b>                | P102 Keep out of reach of children.   |
| <b>Precautionary statement:<br/>Prevention</b> | P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.<br>No smoking.<br>P211 Do not spray on an open flame or other ignition source.<br>P251 Do not pierce or burn, even after use.<br>P260 Do not breathe mist/vapours.<br>P263 Avoid contact during pregnancy/while nursing.<br>P271 Use only outdoors or in a well-ventilated area.<br>P280 Wear protective gloves/eye protection. |
| <b>Precautionary statement:<br/>Storage</b>    | P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  |
| <b>Precautionary statement:<br/>Disposal</b>   | P501 Dispose of contents/container in accordance with national regulation.  |

### 2.3. Other hazards

Information according to XVII. 56 REACH

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.

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.

Pregnant women should absolutely avoid inhalation and skin contact.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General chemical description:

1-Component PU foam in pressurized can

#### Base substances of preparation:

Polyurethane prepolymer

With free 4,4'-methylenediphenyl diisocyanate (MDI)

Propellant gas base: dimethyl ether / isobutane / propane / n-butane mixture

**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

| Hazardous components<br>CAS-No.   | EC Number<br>REACH-Reg No.    | content    | Classification  |
|---|-------------------------------|------------|---|
| Diphenylmethane diisocyanate, isomers and homologues<br>9016-87-9               | 202-966-0                     | 10- < 25 % | Carc. 2<br>H351<br>Acute Tox. 4; Inhalation<br>H332<br>STOT RE 2<br>H373<br>Eye Irrit. 2<br>H319<br>STOT SE 3<br>H335<br>Skin Irrit. 2<br>H315<br>Resp. Sens. 1<br>H334<br>Skin Sens. 1<br>H317 |
| Propane<br>74-98-6  | 200-827-9<br>01-2119486944-21 | 1- < 5 %   | Flam. Gas 1<br>H220<br>Press. Gas<br>H280   |
| Alkanes, C14-17, chloro<br>85535-85-9   | 287-477-0<br>01-2119519269-33 | 5- < 10 %  | Lact.<br>H362<br>Aquatic Acute 1<br>H400<br>Aquatic Chronic 1<br>H410<br>M factor: 100 M factor (Chron Aquat Tox):<br>10  |
| Phosphorous oxychloride, reaction products with propylene oxide<br>1244733-77-4 | 01-2119486772-26              | 1- < 5 %   | Acute Tox. 4<br>H302  |
| Dimethyl ether<br>115-10-6  | 204-065-8<br>01-2119472128-37 | 5- < 10 %  | Flam. Gas 1<br>H220<br>Press. Gas<br>H280   |
| Butane, n- (< 0.1 % butadiene)<br>106-97-8                                      | 203-448-7<br>01-2119474691-32 | 1- < 3 %   | Flam. Gas 1<br>H220<br>Press. Gas   |
| Isobutane<br>75-28-5  | 200-857-2<br>01-2119485395-27 | 1- < 5 %   | Flam. Gas 1<br>H220<br>Press. Gas<br>H280   |

**For full text of the H - statements and other abbreviations see section 16 "Other information".  
Substances without classification may have community workplace exposure limits available.**

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

In case of adverse health effects seek medical advice.

#### Inhalation:

Move to fresh air, consult doctor if complaint persists.

Delayed effects possible after inhalation.

#### Skin contact:

Fresh foam : Wipe off affected skin area immediately with a soft cloth and then remove residues with vegetable oil; apply skin care product. Cured foam can be removed only mechanically.

Eye contact:

Immediately flush eyes with water, put on a bandage with sterile gauze, see an oculist.

Ingestion:

Rinse mouth, do not induce vomiting, consult a doctor.

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

Causes serious eye irritation.

May cause an allergic skin reaction.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

SKIN: Redness, inflammation.

INGESTION: Nausea, vomiting, diarrhea, abdominal pain.

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

See section: Description of first aid measures

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

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

**Suitable extinguishing media:**

carbon dioxide, foam, powder, water spray jet, fine water spray

**Extinguishing media which must not be used for safety reasons:**

High pressure waterjet

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

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>) can be released.

In the event of fire, isocyanate vapors may be formed.

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

Wear self-contained breathing apparatus.

Wear protective equipment.

**Additional information:**

Cool endangered containers with water spray jet.

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

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

Avoid contact with skin and eyes.

Ensure adequate ventilation.

Wear protective equipment.

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

Do not empty into drains / surface water / ground water.

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

Remove mechanically.

Dispose of contaminated material as waste according to Section 13.

#### **6.4. Reference to other sections**

See advice in section 8

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

**7.1. Precautions for safe handling**

Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains.

Transport by automobile: leave the container wrapped in a cloth in the trunk, never in the passenger area.

Also to be noted when processing larger amounts (> 1 kg): during processing and drying after adhesion, ventilate well. Avoid all sources of fire such as stoves and ovens. Switch off all electrical devices such as parabolic heaters, hot plates, storage heaters etc. in good time for them to have cooled down before commencing work. Avoid all sparks, including those occurring at electrical switches and devices.

Avoid skin and eye contact.

**Hygiene measures:**

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

Remove any dirt that gets onto the skin with vegetable oil; skin care.

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

For pressurized can: protect from direct sunshine and temperatures above 50°C.

Store in a cool, dry place.

Ensure that storage and workrooms are adequately ventilated.

Avoid strictly temperatures below - 20 °C and above + 50 °C.

Protect from direct sunlight.

Storage at 5 to 25°C is recommended.

Do not store or use near heat, spark, open flame or other sources of ignition.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

**7.3. Specific end use(s)**

Foam, 1-component with propellant gas

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational Exposure Limits**

Valid for  
Great Britain

| Ingredient [Regulated substance]  | ppm   | mg/m <sup>3</sup> | Value type                        | Short term exposure limit category / Remarks | Regulatory list |
|---|-------|-------------------|-----------------------------------|--|-----------------|
| 4,4'-Methylenediphenyl diisocyanate<br>101-68-8<br>[ISOCYANATES, ALL (AS -NCO)] |       | 0,07              | Short Term Exposure Limit (STEL): |  | EH40 WEL        |
| 4,4'-Methylenediphenyl diisocyanate<br>101-68-8<br>[ISOCYANATES, ALL (AS -NCO)] |       | 0,02              | Time Weighted Average (TWA):      |  | EH40 WEL        |
| Dimethyl ether<br>115-10-6<br>[DIMETHYL ETHER]                                  | 400   | 766               | Time Weighted Average (TWA):      |  | EH40 WEL        |
| Dimethyl ether<br>115-10-6<br>[DIMETHYL ETHER]                                  | 500   | 958               | Short Term Exposure Limit (STEL): |  | EH40 WEL        |
| Dimethyl ether<br>115-10-6<br>[DIMETHYLETHER]                                   | 1.000 | 1.920             | Time Weighted Average (TWA):      | Indicative                                   | ECTLV           |
| Butane<br>106-97-8<br>[BUTANE]  | 750   | 1.810             | Short Term Exposure Limit (STEL): |  | EH40 WEL        |
| Butane<br>106-97-8<br>[BUTANE]  | 600   | 1.450             | Time Weighted Average (TWA):      |  | EH40 WEL        |

**Predicted No-Effect Concentration (PNEC):**

| Name on list  | Environmental Compartment    | Exposure period | Value |     |             |            | Remarks |
|---|------------------------------|-----------------|-------|-----|-------------|------------|---------|
|   |                              |                 | mg/l  | ppm | mg/kg       | others     |         |
| Phosphorous oxychloride, reaction products with propylene oxide<br>1244733-77-4 | STP                          |                 |       |     |             | 7,84 mg/L  |         |
| Phosphorous oxychloride, reaction products with propylene oxide<br>1244733-77-4 | sediment (marine water)      |                 |       |     | 1,34 mg/kg  |            |         |
| Phosphorous oxychloride, reaction products with propylene oxide<br>1244733-77-4 | sediment (freshwater)        |                 |       |     | 13,4 mg/kg  |            |         |
| Phosphorous oxychloride, reaction products with propylene oxide<br>1244733-77-4 | soil                         |                 |       |     | 1,7 mg/kg   |            |         |
| Phosphorous oxychloride, reaction products with propylene oxide<br>1244733-77-4 | aqua (marine water)          |                 |       |     |             | 0,064 mg/L |         |
| Phosphorous oxychloride, reaction products with propylene oxide<br>1244733-77-4 | aqua (freshwater)            |                 |       |     |             | 0,64 mg/L  |         |
| Dimethyl ether<br>115-10-6  | aqua (freshwater)            |                 |       |     |             | 0,155 mg/L |         |
| Dimethyl ether<br>115-10-6  | sediment (freshwater)        |                 |       |     | 0,681 mg/kg |            |         |
| Dimethyl ether<br>115-10-6  | soil                         |                 |       |     | 0,045 mg/kg |            |         |
| Dimethyl ether<br>115-10-6  | STP                          |                 |       |     |             | 160 mg/L   |         |
| Dimethyl ether<br>115-10-6  | aqua (marine water)          |                 |       |     |             | 0,016 mg/L |         |
| Dimethyl ether<br>115-10-6  | aqua (intermittent releases) |                 |       |     |             | 1,549 mg/L |         |
| Dimethyl ether<br>115-10-6  | sediment (marine water)      |                 |       |     | 0,069 mg/kg |            |         |

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

| Name on list  | Application Area   | Route of Exposure | Health Effect                                | Exposure Time | Value                  | Remarks |
|---|--------------------|-------------------|--|---------------|------------------------|---------|
| Phosphorous oxychloride, reaction products with propylene oxide<br>1244733-77-4 | Workers            | Inhalation        | Acute/short term exposure - systemic effects |               | 22,4 mg/m <sup>3</sup> |         |
| Phosphorous oxychloride, reaction products with propylene oxide<br>1244733-77-4 | Workers            | Inhalation        | Long term exposure - systemic effects        |               | 5,82 mg/m <sup>3</sup> |         |
| Phosphorous oxychloride, reaction products with propylene oxide<br>1244733-77-4 | Workers            | Dermal            | Acute/short term exposure - systemic effects |               | 8 mg/kg bw/day         |         |
| Phosphorous oxychloride, reaction products with propylene oxide<br>1244733-77-4 | Workers            | Dermal            | Long term exposure - systemic effects        |               | 2,08 mg/kg bw/day      |         |
| Dimethyl ether<br>115-10-6  | Workers            | Inhalation        | Long term exposure - systemic effects        |               | 1894 mg/m <sup>3</sup> |         |
| Dimethyl ether<br>115-10-6  | general population | Inhalation        | Long term exposure - systemic effects        |               | 471 mg/m <sup>3</sup>  |         |

**Biological Exposure Indices:**

None

**8.2. Exposure controls:**

**Respiratory protection:**

The product should only be used at workplaces with intensive ventilation/extraction. If intensive ventilation/extraction is not possible then self-contained independent respiratory protection should be worn.

**Hand protection:**

Use attached gloves. Perforation time < 5 minutes.

**Eye protection:**

Goggles which can be tightly sealed.

**Skin protection:**

Suitable protective clothing

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|   |  |
|---|--|
| Appearance  | Aerosol<br>liquid<br>beige                               |
| Odor  | ether-like   |
| Odour threshold   | No data available / Not applicable                       |
| pH  | No data available / Not applicable                       |
| Initial boiling point                                       | No data available / Not applicable                       |
| Flash point   | -104 °C (-155.2 °F)                                      |
| Flash point   | 400 °C (752 °F)  |
| Decomposition temperature                                   | No data available / Not applicable                       |
| Vapour pressure   | No data available / Not applicable                       |
| Density<br>(20 °C (68 °F))                                  | 1 g/cm <sup>3</sup>                                      |
| Bulk density  | No data available / Not applicable                       |
| Viscosity   | No data available / Not applicable                       |
| Viscosity (kinematic)                                       | No data available / Not applicable                       |
| Explosive properties  | No data available / Not applicable                       |
| Solubility (qualitative)<br>(23 °C (73.4 °F))               | Reacts slowly with water to liberate carbon dioxide gas. |
| Solubility (qualitative)<br>(20 °C (68 °F); Solvent: Water) | Insoluble  |
| Solidification temperature                                  | No data available / Not applicable                       |
| Melting point   | No data available / Not applicable                       |
| Flammability  | No data available / Not applicable                       |
| Auto-ignition temperature                                   | No data available / Not applicable                       |
| Explosive limits  | No data available / Not applicable                       |
| Partition coefficient: n-octanol/water                      | No data available / Not applicable                       |
| Evaporation rate  | No data available / Not applicable                       |
| Vapor density   | No data available / Not applicable                       |
| Oxidising properties  | No data available / Not applicable                       |

**9.2. Other information**

No data available / Not applicable

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

Reaction with water, formation of CO<sub>2</sub>  
Pressure build-up in closed containers.  
Reaction with water, alcohols, amines.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

See section reactivity



**10.4. Conditions to avoid**

Temperatures over appr. 50 °C  
Humidity

**10.5. Incompatible materials**

See section reactivity

**10.6. Hazardous decomposition products**

At higher temperatures isocyanate may be released.  
Carbon dioxide is generated under contact with moisture, leading to pressure in the cans. Danger of cans bursting!

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****General toxicological information:**

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Cross-reactions with other isocyanate compounds are possible.

Persons suffering from allergic reactions to isocyanates should avoid contact with the product.

**STOT-single exposure:**

May cause respiratory irritation.

**STOT-repeated exposure:**

May cause damage to organs through prolonged or repeated exposure.

**Skin irritation:**

Causes skin irritation.

**Eye irritation:**

Causes serious eye irritation.

**Sensitizing:**

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Carcinogenicity:**

Suspected of causing cancer

**Reproductive toxicity:**

May cause harm to breast-fed children.

**Acute oral toxicity:**

| Hazardous components<br>CAS-No.   | Value<br>type | Value          | Route of<br>application | Exposure<br>time | Species | Method                                      |
|---|---------------|----------------|-------------------------|------------------|---------|---|
| Diphenylmethane<br>diisocyanate, isomers and<br>homologues<br>9016-87-9               | LD50          | > 10.000 mg/kg | oral                    |                  | rat     | OECD Guideline 401 (Acute<br>Oral Toxicity) |
| Alkanes, C14-17, chloro<br>85535-85-9   | LD50          | > 4.000 mg/kg  | oral                    |                  | rat     |   |
| Phosphorous oxychloride,<br>reaction products with<br>propylene oxide<br>1244733-77-4 | LD50          | 632 mg/kg      | oral                    |                  | rat     |   |
| Dimethyl ether<br>115-10-6  | LD50          | > 2.000 mg/kg  | oral                    |                  | rat     |   |

**Acute inhalative toxicity:**

| Hazardous components CAS-No.  | Value type | Value    | Route of application | Exposure time | Species | Method   |
|---|------------|----------|----------------------|---------------|---------|--|
| Phosphorous oxychloride, reaction products with propylene oxide<br>1244733-77-4 | LC50       | > 7 mg/l |                      |               | rat     | OECD Guideline 403 (Acute Inhalation Toxicity) |
| Butane, n- (< 0.1 % butadiene)<br>106-97-8                                      | LC50       | 658 mg/l |                      | 4 h           | rat     |  |
| Isobutane<br>75-28-5  | LC50       | 619 mg/l | gas                  | 4 h           | mouse   |  |

**Acute dermal toxicity:**

| Hazardous components CAS-No.  | Value type | Value         | Route of application | Exposure time | Species | Method                                     |
|---|------------|---------------|----------------------|---------------|---------|--|
| Diphenylmethane diisocyanate, isomers and homologues<br>9016-87-9               | LD50       | > 9.400 mg/kg | dermal               |               | rat     | OECD Guideline 402 (Acute Dermal Toxicity) |
| Phosphorous oxychloride, reaction products with propylene oxide<br>1244733-77-4 | LD50       | > 2.000 mg/kg | dermal               |               | rat     | OECD Guideline 402 (Acute Dermal Toxicity) |
| Dimethyl ether<br>115-10-6  | LD50       | > 2.000 mg/kg | dermal               |               | rabbit  |  |

**Skin corrosion/irritation:**

| Hazardous components CAS-No.          | Result              | Exposure time | Species | Method   |
|---------------------------------------|---------------------|---------------|---------|--|
| Alkanes, C14-17, chloro<br>85535-85-9 | slightly irritating |               | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

**Germ cell mutagenicity:**

| Hazardous components CAS-No. | Result                             | Type of study / Route of administration          | Metabolic activation / Exposure time | Species | Method   |
|------------------------------|------------------------------------|--|--------------------------------------|---------|--|
| Propane<br>74-98-6           | negative with metabolic activation | in vitro mammalian chromosome aberration test    | with and without                     |         | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Dimethyl ether<br>115-10-6   | negative                           | bacterial reverse mutation assay (e.g Ames test) | with and without                     |         |  |
| Isobutane<br>75-28-5         | negative with metabolic activation | in vitro mammalian chromosome aberration test    | with and without                     |         | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |

**Repeated dose toxicity**

| Hazardous components CAS-No.                                      | Result                      | Route of application | Exposure time / Frequency of treatment | Species | Method   |
|---|-----------------------------|----------------------|--|---------|--|
| Diphenylmethane diisocyanate, isomers and homologues<br>9016-87-9 | NOAEL=0,2 mg/m <sup>3</sup> | inhalation: aerosol  | 2 y6 h per d, 5 d per week             | rat     | OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| Dimethyl ether<br>115-10-6  | NOAEL=> 10000 ppm           | inhalation           | 4 week6 hours/day, 5 days/week         | rat     |  |

**SECTION 12: Ecological information****General ecological information:**

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Do not empty into drains, soil or bodies of water.

**Ecotoxicity**

Acute invertebrate toxicity: EC50 > 100 mg product/l.

**Aquatic plant/algae toxicity:**

EC50 > 100 mg product/l.

Alga, Growth Inhibition test OECD 201.

**12.1. Toxicity****Ecotoxicity:**

May cause long lasting harmful effects to aquatic life.

| Hazardous components<br>CAS-No.   | Value<br>type | Value        | Acute<br>Toxicity<br>Study | Exposure<br>time | Species             | Method   |
|---|---------------|--------------|----------------------------|------------------|---------------------|--|
| Diphenylmethane<br>diisocyanate, isomers and<br>homologues<br>9016-87-9 | LC50          | > 1.000 mg/l | Fish                       | 96 h             | Danio rerio         | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)                   |
| Alkanes, C14-17, chloro<br>85535-85-9                                   | NOEC          | > 1,6 mg/l   | Fish                       | 20 d             | Oryzias latipes     | OECD 210 (fish<br>early lite stage<br>toxicity test)                   |
|   | LC50          | > 5.000 mg/l | Fish                       | 96 h             | Alburnus alburnus   | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)                   |
| Alkanes, C14-17, chloro<br>85535-85-9                                   | EC50          | 0,0059 mg/l  | Daphnia                    | 48 h             | Daphnia magna       | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation<br>Test) |
| Alkanes, C14-17, chloro<br>85535-85-9                                   | NOEC          | 0,1 mg/l     | Algae                      | 72 h             |                     | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                |
|   | ErC50         | > 3,2 mg/l   | Algae                      | 72 h             |                     | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                |
| Alkanes, C14-17, chloro<br>85535-85-9                                   | NOEC          | 0,01 mg/l    | chronic<br>Daphnia         | 21 d             | Daphnia magna       | OECD 211<br>(Daphnia magna,<br>Reproduction Test)                      |
| Dimethyl ether<br>115-10-6  | LC50          | > 4.000 mg/l | Fish                       | 96 h             | Poecilia reticulata | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)                   |
| Dimethyl ether<br>115-10-6  | EC50          | > 4.000 mg/l | Daphnia                    | 48 h             | Daphnia magna       | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation<br>Test) |
| Dimethyl ether<br>115-10-6  | EC50          | > 1.000 mg/l | Algae                      |                  |                     | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                |
| Butane, n- (< 0.1 % butadiene)<br>106-97-8                              | LC50          | 27,98 mg/l   | Fish                       | 96 h             |                     |  |
| Butane, n- (< 0.1 % butadiene)<br>106-97-8                              | EC50          | 14,22 mg/l   | Daphnia                    | 48 h             |                     |  |
| Butane, n- (< 0.1 % butadiene)<br>106-97-8                              | EC50          | 7,71 mg/l    | Algae                      | 96 h             |                     |  |
| Isobutane<br>75-28-5  | EC50          | 7,71 mg/l    | Algae                      | 96 h             |                     |  |

**12.2. Persistence and degradability**

| Hazardous components<br>CAS-No. | Result | Route of<br>application | Degradability | Method |
|---------------------------------|--------|-------------------------|---------------|--------|
|---------------------------------|--------|-------------------------|---------------|--------|

|                            |   |         |     |  |
|----------------------------|---|---------|-----|--|
| Dimethyl ether<br>115-10-6 | under test conditions no<br>biodegradation observ | aerobic | 5 % | EU Method C.4-A (Determination<br>of the "Ready"<br>Biodegradability Dissolved<br>Organic Carbon (DOC) Die-Away<br>Test) |
|----------------------------|---|---------|-----|--|

**12.3. Bioaccumulative potential / 12.4. Mobility in soil**

| Hazardous components<br>CAS-No.       | LogKow | Bioconcentration<br>factor (BCF) | Exposure<br>time | Species                | Temperature | Method   |
|---------------------------------------|--------|----------------------------------|------------------|------------------------|-------------|--|
| Alkanes, C14-17, chloro<br>85535-85-9 |        | 1,09 - 349                       | 35 d             | Oncorhynchus<br>mykiss |             | OECD Guideline 305<br>(Bioconcentration: Flow-<br>through Fish Test)                         |
| Dimethyl ether<br>115-10-6            | 0,1    |                                  |                  |                        |             |  |
| Isobutane<br>75-28-5                  | 2,88   |                                  |                  |                        | 20 °C       | OECD Guideline 107<br>(Partition Coefficient (n-<br>octanol / water), Shake<br>Flask Method) |

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

| Hazardous components<br>CAS-No.  | PBT/vPvB   |
|--|--|
| Diphenylmethane diisocyanate, isomers and<br>homologues<br>9016-87-9               | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very<br>Bioaccumulative (vPvB) criteria. |
| Propane<br>74-98-6   | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very<br>Bioaccumulative (vPvB) criteria. |
| Phosphorous oxychloride, reaction products<br>with propylene oxide<br>1244733-77-4 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very<br>Bioaccumulative (vPvB) criteria. |
| Dimethyl ether<br>115-10-6   | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very<br>Bioaccumulative (vPvB) criteria. |
| Butane, n- (< 0.1 % butadiene)<br>106-97-8   | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very<br>Bioaccumulative (vPvB) criteria. |
| Isobutane<br>75-28-5   | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very<br>Bioaccumulative (vPvB) criteria. |

**12.6. Other adverse effects**

No data available.

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

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

160504 gases in pressure containers (including halons) containing dangerous substances

**SECTION 14: Transport information****14.1. UN number**

|      |      |
|------|------|
| ADR  | 1950 |
| RID  | 1950 |
| ADN  | 1950 |
| IMDG | 1950 |
| IATA | 1950 |

**14.2. UN proper shipping name**

|      |                     |
|------|---------------------|
| ADR  | AEROSOLS            |
| RID  | AEROSOLS            |
| ADN  | AEROSOLS            |
| IMDG | AEROSOLS            |
| IATA | Aerosols, flammable |

**14.3. Transport hazard class(es)**

|      |     |
|------|-----|
| ADR  | 2.1 |
| RID  | 2.1 |
| ADN  | 2.1 |
| IMDG | 2.1 |
| IATA | 2.1 |

**14.4. Packaging group**

ADR  
RID  
ADN  
IMDG  
IATA

**14.5. Environmental hazards**

|      |                |
|------|----------------|
| ADR  | not applicable |
| RID  | not applicable |
| ADN  | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

**14.6. Special precautions for user**

|      |                                   |
|------|-----------------------------------|
| ADR  | not applicable<br>Tunnelcode: (D) |
| RID  | not applicable                    |
| ADN  | not applicable                    |
| IMDG | not applicable                    |
| IATA | not applicable                    |

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

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

VOC content 20,22 %  
(2010/75/EU)

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.



## SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

- 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.
- H362 May cause harm to breast-fed children.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

### Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

### Label elements (DPD):

F+ - Extremely flammable

Xn - Harmful



### Risk phrases:

- R12 Extremely flammable.
- R20/22 Harmful by inhalation and if swallowed.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R40 Limited evidence of a carcinogenic effect.
- R42/43 May cause sensitization by inhalation and skin contact.
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R53 May cause long-term adverse effects in the aquatic environment.
- R64 May cause harm to breastfed babies.

### Safety phrases:

- S2 Keep out of the reach of children.
- S23 Do not breathe vapour.
- S24/25 Avoid contact with skin and eyes.
- S29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S46 If swallowed, seek medical advice immediately and show this container or label.
- S51 Use only in well-ventilated areas.

### Additional labeling:

Contains isocyanates. See information supplied by the manufacturer.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children

Contains:

Diphenylmethane diisocyanate, isomers and homologues,  
Phosphorous oxychloride, reaction products with propylene oxide

**Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document.  
Corresponding text is displayed in a different color on shadowed fields.**