

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



**Trade name :** Qju Adhesive Foam 3700  
Qju Klebeschaum 3700  
**Revision date :** 28.09.2023  
**Print date :** 28.09.2023

**Version (Revision) :** 12.0.0 (11.0.0)

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

### 1.1 Product identifier

Qju Adhesive Foam 3700  
Qju Klebeschaum 3700

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

#### Relevant identified uses

##### Products Category [PC]

PC 1 - Adhesives, sealants

#### Uses advised against

There are no information about relevant identified uses of the product according to the Regulation (EC) No. 1907/2006 (REACH-Regulation), which are advised against. For using the product observe the information in the Technical data sheet of the product.

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

#### Supplier

Brillux GmbH & Co KG  
www.brillux.de

**Street :** Weseler Straße 401

**Postal code/City :** D - 48163 Münster

**Telephone :** +49 (0)251-7188-0

**Telefax :** +49 (0)251-7188-280

#### Information contact :

Electronic mail address of the well-informed person for safety data sheets:sdb@brillux.de

### 1.4 Emergency telephone number

Outside the business hours (9 a.m. to 5 p.m.):  
(Giftinformationszentrum-Nord, Göttingen, consultation in german or english language)  
Telephone: +49 (0)551-19240.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Aerosol 1 ; H222 - Aerosols : Category 1 ; Extremely flammable aerosol.  
Aerosol 1 ; H229 - Aerosols : Category 1 ; Pressurised container: May burst if heated.  
Acute Tox. 4 ; H332 - Acute toxicity (inhalative) : Category 4 ; Harmful if inhaled.  
Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.  
Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.  
Resp. Sens. 1 ; H334 - Sensitisation to the respiratory tract : Category 1 ; May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.  
Carc. 2 ; H351 - Carcinogenicity : Category 2 ; Suspected of causing cancer.  
STOT SE 3 ; H335 - STOT-single exposure : Category 3 ; May cause respiratory irritation.  
STOT RE 2 ; H373 - STOT-repeated exposure : Category 2 ; May cause damage to organs through prolonged or repeated exposure.

### 2.2 Label elements

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

##### Hazard pictograms

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Flame (GHS02) · Health hazard (GHS08) · Exclamation mark (GHS07)

## Signal word

Danger

## Hazard components for labelling

DIPHENYLMETHANE DIISOCYANATE, ISOMERE AND HOMOLOGUES ; CAS No. : 9016-87-9

## Hazard statements

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

## Precautionary statements

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P260 Do not breathe mists.  
P312 Call a POISON CENTER or a doctor if you feel unwell.  
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/....  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P501 Dispose of contents/container to approved disposal company or local collection.

## Special rules for supplemental label elements for certain mixtures

EUH204 Contains isocyanates. May produce an allergic reaction.

## 2.3 Other hazards

The product does not contain any substances with endocrine-disrupting properties according to Article 59 Paragraph 1 or substances with endocrine-disrupting properties according to Regulations (EU) 2017/2100 or (EU) 2018/605. The product does not contain any substances, which fulfil the criteria for PBT or vPvB in accordance with the Annex XIII of the Regulation (EC) No 1907/2006 (REACH-Regulation).

## Adverse physicochemical effects

Caution! Pressurized container.  
Without sufficient ventilation formation of explosive mixtures may be possible.  
Propellant gas released during foaming is highly flammable.

## Adverse human health effects and symptoms

At transport the product in the vehicle, the container should stand upright in the boot.

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The classification refer to the anhardened product. 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.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Description

Mixture based on components, which are called following, and other components.

##### Hazardous ingredients

DIPHENYLMETHANE DIISOCYANATE, ISOMERE AND HOMOLOGUES ; EC No. : 618-498-9; CAS No. : 9016-87-9

Weight fraction :  $\geq 30 - < 50$  %

Classification 1272/2008 [CLP] : Resp. Sens. 1 ; H334 Carc. 2 ; H351 STOT RE 2 ; H373 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

PHOSPHOROUS OXYCHLORIDE, REACTION PRODUCTS WITH PROPYLENE OXIDE ; REACH No. : 01-2119486772-26 ; EC No. : 807-935-0; CAS No. : 1244733-77-4

Weight fraction :  $\geq 10 - < 20$  %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302

DIMETHYL ETHER ; REACH No. : 01-2119472128-37 ; EC No. : 204-065-8; CAS No. : 115-10-6

Weight fraction :  $\geq 5 - < 10$  %

Classification 1272/2008 [CLP] : Flam. Gas 1 ; H220 Press. Gas (Liq.) ; H280

ISOBUTANE ; REACH No. : 01-2119485395-27 ; EC No. : 200-857-2; CAS No. : 75-28-5

Weight fraction :  $\geq 5 - < 10$  %

Classification 1272/2008 [CLP] : Flam. Gas 1 ; H220 Press. Gas (Liq.) ; H280

PROPANE ; REACH No. : 01-2119486944-21 ; EC No. : 200-827-9; CAS No. : 74-98-6

Weight fraction :  $\geq 1 - < 5$  %

Classification 1272/2008 [CLP] : Flam. Gas 1 ; H220 Press. Gas (Liq.) ; H280

2,2',6,6'-TETRABROM-4,4'-ISOPROPYLIDENEDIPHENOL,PROPOXYLATED ; REACH No. : 01-2119971810-36 ; EC No. : 926-564-6

Weight fraction :  $\geq 1 - < 5$  %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302

The substance "Diphenylmethane diisocyanate, isomers and homologues" is not registered according to the REACH regulation, as it is a polymer that is exempt from registration according to the provisions of Article 2 (9) of the REACH regulation. All monomers or other substances within the polymer are registered or exempt from registration.

##### Additional information

During the hardening of the product the following substances are produced and released by reaction with atmospheric humidity: Carbon dioxide (CO<sub>2</sub>).

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General information

In all cases of doubt, or when symptoms persist, seek medical attention. Immediately remove all contaminated clothing. In case of unconsciousness: lay on side - call a doctor. Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand. Wash hands, eyes and face thoroughly after handling.

##### Following inhalation

When symptoms persists, take the casualty into the fresh air and keep warm. In case of unconsciousness place patient stably in side position for transportation. Irregular breathing/no breathing: artificial respiration. Call a doctor and tell him the exactly substance.

##### In case of skin contact

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Take off immediately all contaminated clothes. Wash away with soap and water and rinse. Removing fresh foam carefully mechanically. If skin irritation continues, consult a doctor.

### After eye contact

Remove contact lenses, keep eyelids open. Rinse open eye immediately with plenty of running water. Seek medical advice if complaint continues.

### Following ingestion

Drink water in small draught. Keep at rest. Do not induce vomiting. When swallowed immediately consult and show packing or label to physician.

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

Cough, dyspnoea and asthmatic complaints. Headaches.  
Dermatitis, skin discoloration and drying of the skin. Allergic contacts.  
Irritation of the nasal and pharyngeal mucosa. Influencing the central nervous system.  
In the case of airway sensitization, concentrations below the limit value may trigger asthma symptoms.

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

Delayed effects due to exposure must be expected. Other hazardous properties can not be excluded.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

In case of fire: Use alcohol resistant foam, CO<sub>2</sub>, powders or water spray for extinction. Fight larger fires with water spray or alcohol resistant foam.

#### Unsuitable extinguishing media

In case of fire: Do not use waterjet for extinction.

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

#### Hazardous combustion products

Can form explosive gas-air mixtures. Inhalation of fire gases can cause serious damage to health. Formation of toxic gases is possible during heating or in case of fire: Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>), hydrogen chloride (HCl), hydrogen cyanide (HCN).

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

At a fire caused by the product a breathing apparatus with an independent source of air is to have ready and to use if necessary for the firefighting.

### 5.4 Additional information

Cool endangered containers with water in case of fire. Do not allow run-off from fire-fighting to enter drains or water courses.

## SECTION 6: Accidental release measures

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

Keep no protective persons away, personal should wear protective clothings. Refer to protective measures listed in sections 7 and 8. Avoid contact with eyes and skin. Keep away from ignition sources on account of the organic solvent content and air room well. Do not inhale vapours.

### 6.2 Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations. Holding polluted washing water back and disposing of duly.

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

#### For cleaning up

Absorb with liquid-binding material (sand, diatomite, acid-binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13. Stamped out foam moisten or with humidity-binding material

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(sand, sawdust, chemical tie) book and for hardening bring. Ensure adequate ventilation. Do not remove residue by rinsing thoroughly with water or a detergent, based on water.

## 6.4 Reference to other sections

See Section 7 for information on safe handling.

You find information about the safety equipment of persons in the section 8, information about the refuse disposal in section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Protective measures

Ensure a good ventilation in room and working area. Handle and open container with care. Use only outdoors or in a well-ventilated area. Keep away from heat and direct sunlight. Avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit) or other thresholds.

#### Measures to prevent fire

Keep ignition sources away - Do not smoke. Container is under pressure. Protect against sunshine and heating over 50 °C. After use: do not open violently or burn. Do not spray into flames or on glowing materials. Ground/bond container and receiving equipment. Use explosion-proof pipes, electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

#### Measures to prevent aerosol and dust generation

Avoid breathing vapours.

#### Advices on general occupational hygiene

While working do not eat, drink or smoke. Wash hands and face before breaks and after work and take a shower if necessary. Immediately remove all contaminated clothing.

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

#### Requirements for storage rooms and vessels

Keep container tightly in a dry, cool and good ventilated place. Observe official regulations on storing packagings with pressurized containers. Store in a well-ventilated place. Keep cool. Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Do not store the product in lounge room. Keep out of the reach of children.

#### Hints on joint storage

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Store away from foodstuffs. Avoid moisture.

**Storage class (TRGS 510) :** 2B

#### Further information on storage conditions

Keep container tightly sealed. Store at 5°-35°C. Containers should be kept dry and sealed. Keep containers in a well-ventilated place. Keep away from heat and direct sun.

### 7.3 Specific end use(s)

For using the product observe the information in the Technical data sheet of the product.

#### Industrial sector specific solutions

**GISCODE :** Product-Code (GISCODE) in accordance with GISBAU (Gefahrstoff-Informationssystem der deutschen Berufsgenossenschaften der Bauwirtschaft) for polyurethane systems: PU80.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

DIPHENYLMETHANE DIISOCYANATE, ISOMERE AND HOMOLOGUES ; CAS No. : 9016-87-9

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 0,05 mg/m<sup>3</sup>

Peak limitation : 1/=2=(I)

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Version : 01.04.2007

ISOBUTANE ; CAS No. : 75-28-5

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 1000 ppm / 2400 mg/m<sup>3</sup>

Peak limitation : 4(II)

Version : 23.06.2022

DIMETHYL ETHER ; CAS No. : 115-10-6

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 1000 ppm / 1900 mg/m<sup>3</sup>

Peak limitation : 8(II)

Version : 23.06.2022

PROPANE ; CAS No. : 74-98-6

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 1000 ppm / 1800 mg/m<sup>3</sup>

Peak limitation : 4(II)

Version : 23.06.2022

## Remark

Taking into account the details mentioned in the TRGS 900 for the supervision of AGW.

## DNEL-/PNEC-values

### DNEL/DMEL

PHOSPHOROUS OXYCHLORIDE, REACTION PRODUCTS WITH PROPYLENE OXIDE ; CAS No. : 1244733-77-4

Limit value type : DNEL Consumer (systemic)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 1,45 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (systemic)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 1,04 mg/kg

Limit value type : DNEL Consumer (systemic)

Exposure route : Oral

Exposure frequency : Long-term

Limit value : 0,52 mg/kg

Limit value type : DNEL Consumer (systemic)

Exposure route : Inhalation

Exposure frequency : Short-term

Limit value : 5,6 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (systemic)

Exposure route : Oral

Exposure frequency : Short-term

Limit value : 2 mg/kg

Limit value type : DMEL worker (systemic)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 8,2 mg/m<sup>3</sup>

Limit value type : DMEL worker (systemic)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 2,91 mg/kg

Limit value type : DMEL worker (systemic)

Exposure route : Inhalation

Exposure frequency : Short-term

Limit value : 22,6 mg/m<sup>3</sup>

DIMETHYL ETHER ; CAS No. : 115-10-6

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Limit value type : DNEL/DMEL (Consumer)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 497 mg/m<sup>3</sup>

Limit value type : DNEL/DMEL (Professional)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 1894 mg/m<sup>3</sup>

## PNEC

PHOSPHOROUS OXYCHLORIDE, REACTION PRODUCTS WITH PROPYLENE OXIDE ; CAS No. : 1244733-77-4

Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 0,32 mg/l

Limit value type : PNEC (Aquatic, marine water)  
Limit value : 0,032 mg/l

Limit value type : PNEC (Sediment, freshwater)  
Limit value : 11,5 mg/kg

Limit value type : PNEC (Sediment, marine water)  
Limit value : 1,15 mg/kg

Limit value type : PNEC (Soil)  
Limit value : 0,34 mg/kg

Limit value type : PNEC (Sewage treatment plant)  
Limit value : 19,1 mg/l

DIMETHYL ETHER ; CAS No. : 115-10-6

Limit value type : PNEC (Aquatic, freshwater)  
Exposure route : Water (Including sewage plant)  
Limit value : 0,155 mg/l

Limit value type : PNEC (Aquatic, marine water)  
Limit value : 0,016 mg/l

Limit value type : PNEC (Sediment, freshwater)  
Exposure route : Soil  
Limit value : 0,681 mg/kg  
Assessment factor : 1 D

Limit value type : PNEC (Sediment, marine water)  
Exposure route : Soil  
Limit value : 0,069 mg/kg  
Assessment factor : 1 D

Limit value type : PNEC soil  
Exposure route : Soil  
Limit value : 0,045 mg/kg  
Assessment factor : 1 D

Limit value type : PNEC (Soil)  
Limit value : 0,45 mg/kg

Limit value type : PNEC (Sewage treatment plant)  
Exposure route : Water (Including sewage plant)  
Limit value : 160 mg/l

2,2',6,6'-TETRABROM-4,4'-ISOPROPYLDENEDIPHENOL,PROPOXYLATED  
Limit value type : PNEC (Sewage treatment plant)  
Limit value : 10 mg/l

## 8.2 Exposure controls

### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn. Observe data available of section 7.

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## Personal protection equipment

### Eye/face protection

Use safety glasses.

### Skin protection

#### Hand protection

At use as agreed a protective gloves from nitrile rubber with a material thickness 0,38 mm has to be used. Notes of the manufacturer have to be taken into account. Penetration time of the glove material: > = 60 min.

By longer or repeated contact the penetration times can be considerably shorter. The protective gloves should be replaced after the first wear out or a damage of the gloves. Gloves of cotton should be used under the gloves of polychloropren or nitrile rubber. After washing hands replace lost skin fat by fat containing skin creams.

#### Body protection

Using protective clothing.

### Respiratory protection

Breathing protection equipment required in inadequately ventilated places. In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air. Filter type: AX.

## General information

Keep away from food, drink and animal feeding stuff. Immediately remove all contaminated clothing. Wash hands before breaks and after work. Do not inhale gases / fumes / aerosols. Avoid contact with eyes and skin.

## Environmental exposure controls

The product should not reach waters and the ground. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Aerosol.

**Colour** : conformable to product designation.

#### Odour

characteristic

#### Safety characteristics

|  |                      |         |                        |
|--|----------------------|---------|------------------------|
| <b>Melting point/freezing point :</b>            | ( 1013 hPa )         |         | No data available      |
| <b>Initial boiling point and boiling range :</b> | ( 1013 hPa )         |         | No data available      |
| <b>Decomposition temperature :</b>               | ( 1013 hPa )         |         | No data available      |
| <b>Flash point :</b>                             |                      | <       | 0 °C                   |
| <b>Auto-ignition temperature :</b>               |                      |         | No data available      |
| <b>Lower explosion limit :</b>                   |                      |         | 3 Vol-%                |
| <b>Upper explosion limit :</b>                   |                      |         | 18,6 Vol-%             |
| <b>Vapour pressure:</b>                          | ( 20 °C )            |         | 5200 hPa               |
| <b>Density :</b>                                 | ( 20 °C )            | approx. | 1,03 g/cm <sup>3</sup> |
| <b>Solvent separation test :</b>                 | ( 23 °C )            |         | not applicable         |
| <b>Water solubility :</b>                        | ( 20 °C )            |         | practically insoluble  |
| <b>pH :</b>                                      |                      |         | not applicable         |
| <b>log P O/W :</b>                               |                      |         | No data available      |
| <b>Flow time :</b>                               | ( 20 °C )            |         | No data available      |
| <b>Viscosity :</b>                               | ( 20 °C )            |         | No data available      |
| <b>Kinematic viscosity :</b>                     | ( 40 °C )            |         | No data available      |
| <b>Relative vapour density :</b>                 | ( 20 °C )            |         | No data available      |
| <b>VOC-value :</b>                               |                      |         | 182 g/l                |
| <b>Aerosols :</b>                                | Extremely flammable. |         |                        |



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**Particle Characteristics :** not applicable

## 9.2 Other information

Other physical and chemical data have not been determined.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangers connected by a possible reactivity of the product are known to proper handling and storage.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known if stored and handled the product correctly.

Vapours can form explosive mixtures with air. Risk of bursting of the can at temperatures above 50°C.

### 10.4 Conditions to avoid

To avoid formation of ignitable vapour and air mixtures ensure good ventilation (inter alia extraction system). Keep away from frost, heat and direct sunlight.

### 10.5 Incompatible materials

No dangerous reaction known. Acids, bases, amines, alcohols, polyols and water. In contact with water (moisture) CO<sub>2</sub> is formed which leads to an excess pressure in closed containers.

### 10.6 Hazardous decomposition products

No dangerous decomposition product are known if stored and handled correctly. In case of high temperature dangerous decomposition products may be formed: Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), nitrogen oxide (NO<sub>x</sub>), hydrogen cyanide (HCN) and hydrogen chloride (HCl).

## SECTION 11: Toxicological information

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

#### Acute toxicity

Acute toxicity:

- Acute oral toxicity: No data available;
- Acute dermal toxicity: No data available;
- Acute inhalation toxicity: No data available.

#### Acute oral toxicity

Parameter : LD50 ( DIPHENYLMETHANE DIISOCYANATE, ISOMERE AND HOMOLOGUES ; CAS No. : 9016-87-9 )

Exposure route : Oral

Species : Rat

Effective dose : > 5000 mg/kg

Parameter : LD50 ( PHOSPHOROUS OXYCHLORIDE, REACTION PRODUCTS WITH PROPYLENE OXIDE ; CAS No. : 1244733-77-4 )

Exposure route : Oral

Species : Rat

Effective dose : 632 mg/kg

Parameter : LD50 ( 2,2',6,6'-TETRABROM-4,4'-ISOPROPYLIDENEDIPHENOL,PROPOXYLATED )

Exposure route : Oral

Species : Rat

Effective dose : 732 mg/kg

#### Acute dermal toxicity

Parameter : LD50 ( DIPHENYLMETHANE DIISOCYANATE, ISOMERE AND HOMOLOGUES ; CAS No. : 9016-87-9 )

Exposure route : Dermal

Species : Rabbit

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Effective dose : > 5000 mg/kg  
Parameter : LD50 ( PHOSPHOROUS OXYCHLORIDE, REACTION PRODUCTS WITH PROPYLENE OXIDE ; CAS No. : 1244733-77-4 )

Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg  
Parameter : LD50 ( 2,2',6,6'-TETRABROM-4,4'-ISOPROPYLIDENEDIPHENOL,PROPOXYLATED )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg

## Acute inhalation toxicity

Parameter : LC50 ( DIPHENYLMETHANE DIISOCYANATE, ISOMERE AND HOMOLOGUES ; CAS No. : 9016-87-9 )

Exposure route : Inhalation  
Species : Rat  
Effective dose : 1,5 mg/l  
Exposure time : 4 h

Parameter : LC50 ( PHOSPHOROUS OXYCHLORIDE, REACTION PRODUCTS WITH PROPYLENE OXIDE ; CAS No. : 1244733-77-4 )

Exposure route : Inhalation  
Species : Rat  
Effective dose : > 7 mg/l  
Exposure time : 4 h

Parameter : LC50 ( DIMETHYL ETHER ; CAS No. : 115-10-6 )

Exposure route : Inhalation  
Species : Rat  
Effective dose : 308 mg/l

Parameter : LC50 ( ISOBUTANE ; CAS No. : 75-28-5 )

Exposure route : Inhalation  
Species : Rat  
Effective dose : 57 pph

## Corrosion

Irritation:  
- Skin contact: Irritating to skin and mucous membranes.  
- Eye contact: Causes serious eye irritation.

## Respiratory or skin sensitisation

The product is labeled as skin sensitizing.

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The product is classified as carcinogenic.

## STOT-single exposure

Primary irritant effect:  
Inhalation: Irritate the respiratory system.  
Ingestion: Irritate the mouth, neck and the stomach.  
Skin contact: Irritate the skin.  
Eye contact: Strongly irritant for eyes. Risk of serious damage to eyes.

## STOT-repeated exposure

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.  
May causes damage to the organs through prolonged or repeated exposure.

## Aspiration hazard

No risk expected.

## 11.2 Information on other hazards

### Endocrine disrupting properties

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The product does not contain any substances with endocrine-disrupting properties according to Article 59 Paragraph 1 or substances with endocrine-disrupting properties according to Regulations (EU) 2017/2100 or (EU) 2018/605.

## Other adverse effects

This product is unlikely to harm health, given normal and proper handling and hygienic precautions.

## Additional information

The product is classified in toxicological terms on the basis of the results of the calculation procedure outlined within the Regulation (EC) No 1272/2008 (CLP-Regulation), listed in sections 2 and 3.

At proper dealing and use as agreed the product does not cause any effects bad for health after our experiences and the information submitted to us.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

|                  |   |
|------------------|---|
| Parameter :      | LC50 ( DIPHENYLMETHANE DIISOCYANATE, ISOMERE AND HOMOLOGUES ; CAS No. : 9016-87-9 )               |
| Species :        | Danio rerio (zebrafish)   |
| Effective dose : | > 1000 mg/l   |
| Exposure time :  | 96 h  |
| Parameter :      | LC50 ( PHOSPHOROUS OXYCHLORIDE, REACTION PRODUCTS WITH PROPYLENE OXIDE ; CAS No. : 1244733-77-4 ) |
| Species :        | Danio rerio (zebrafish)   |
| Effective dose : | 56,2 mg/l   |
| Exposure time :  | 96 h  |
| Parameter :      | LC50 ( DIMETHYL ETHER ; CAS No. : 115-10-6 )  |
| Species :        | Poecilia reticulata (Guppy)   |
| Effective dose : | > 4,1 g/l   |
| Exposure time :  | 96 h  |

##### Acute (short-term) toxicity to crustacea

|                  |   |
|------------------|---|
| Parameter :      | EC50 ( DIPHENYLMETHANE DIISOCYANATE, ISOMERE AND HOMOLOGUES ; CAS No. : 9016-87-9 )               |
| Species :        | Daphnia magna (Big water flea)  |
| Effective dose : | > 1000 mg/l   |
| Exposure time :  | 24 h  |
| Parameter :      | EC50 ( PHOSPHOROUS OXYCHLORIDE, REACTION PRODUCTS WITH PROPYLENE OXIDE ; CAS No. : 1244733-77-4 ) |
| Species :        | Daphnia magna (Big water flea)  |
| Effective dose : | 131 mg/l  |
| Exposure time :  | 48 h  |
| Parameter :      | LC50 ( DIMETHYL ETHER ; CAS No. : 115-10-6 )  |
| Species :        | Daphnia magna (Big water flea)  |
| Effective dose : | > 4400 mg/l   |

##### Acute (short-term) toxicity to algae and cyanobacteria

|                  |  |
|------------------|--|
| Parameter :      | ErC50 ( DIPHENYLMETHANE DIISOCYANATE, ISOMERE AND HOMOLOGUES ; CAS No. : 9016-87-9 )               |
| Species :        | Scenedesmus subspicatus  |
| Effective dose : | > 1640 mg/l  |
| Exposure time :  | 72 h   |
| Parameter :      | ErC50 ( PHOSPHOROUS OXYCHLORIDE, REACTION PRODUCTS WITH PROPYLENE OXIDE ; CAS No. : 1244733-77-4 ) |
| Species :        | Pseudokirchneriella subcapitata  |
| Effective dose : | 82 mg/l  |
| Exposure time :  | 72 h   |

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### 12.2 Persistence and degradability

These are not data available about the potential of the product concerning his persistency and degradability.

### 12.3 Bioaccumulative potential

These are not data available about the bio accumulation potential of the product.

### 12.4 Mobility in soil

These are not datas available about the potential of the product concerning his mobility in the ground.  
A penetrating into soil, waters and sewage system should be prevented.

### 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6 Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties according to Article 59 Paragraph 1 or substances with endocrine-disrupting properties according to Regulations (EU) 2017/2100 or (EU) 2018/605.

### 12.7 Other adverse effects

Acute or chronic damages to water organisms by the product in the aquatic environment are not expecting.

### 12.8 Additional ecotoxicological information

The classification of the product is based on summation of classified components according to the Regulation (EC) No 1272/2008 (CLP-Regulation). See details in sections 2 and 3.  
Avoid exposing into ground, waterways and drainage.  
Danger of drinking water if even small quantities leak into soil.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Directive 2008/98/EC (Waste Framework Directive)

##### Before intended use

Dispose of contents/container to approved disposal company or local collection according to the local regulations.  
Packaging with not dry uped residues have to dropped at official collecting sites. Packaging with dry uped residues can be disposed together with household garbage or building site garbage. Do not empty into waters or drains.

##### Waste codes/waste designations according to EWC/AVV

For the product:

Code of the European waste catalogue (EWC-Code):

08 05 01\* Disposal of Isocyanate.

For the product:

Code of the European waste catalogue (EWC-Code):

16 05 04\* Gases in pressure containers (including halons) containing dangerous substances.

##### After intended use

Only empty packaging can be transfered to recycling. Uncleaned packaging must be disposed of in the same manner as the medium.

##### Waste codes/waste designations according to EWC/AVV

For the uncleaned packaging:

Code of the European waste catalogue (EWC-Code):

15 01 10\* - packaging containing residues of or contaminated by hazardous substances.

For the hardened product:

Code of the European waste catalogue (EWC-Code):

17 06 04 (Insulation materials other than those mentioned in 17 06 01 and 17 06 03).

## SECTION 14: Transport information

### 14.1 UN number

UN 1950

### 14.2 UN proper shipping name

Land transport (ADR/RID)

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AEROSOLS

**Sea transport (IMDG)**

AEROSOLS

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

AEROSOLS, FLAMMABLE

**14.3 Transport hazard class(es)**

**Land transport (ADR/RID)**

**Class(es) :** 2  
**Classification code :** 5F  
**Tunnel restriction code :** D  
**Special provisions :** LQ 1 | E 0  
**Hazard label(s) :** 2.1

**Sea transport (IMDG)**

**Class(es) :** 2.1  
**EmS-No. :** F-D / S-U  
**Special provisions :** LQ 1 | E 0  
**Hazard label(s) :** 2.1

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

**Class(es) :** 2.1  
**Hazard label(s) :** 2.1

**14.4 Packing group**

-

**14.5 Environmental hazards**

**Land transport (ADR/RID) :** No  
**Sea transport (IMDG) :** No  
**Air transport (ICAO-TI / IATA-DGR) :** No

**14.6 Special precautions for user**

None

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

Not relevant because the product in type of delivery does not transport in bulks according to the International Maritime Organization (IMO) instruments.

**14.8 Additional information**

ADR/RID: Limited quantities.

**SECTION 15: Regulatory information**

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

**EU legislation**

**Authorisations and/or restrictions on use**

**Restrictions on use**

As from 24 August 2023 adequate training is required before industrial or professional use.  
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.

**Other regulations (EU)**

**Directive 2004/42/EC on the limitation of emissions of volatile organic compounds**

The product is not subject to the EU guideline 2004/42/EC about the limitation of the issues of brief organic connections due to the use of organic solvents in certain colours and varnishes.

**National regulations**

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## Störfallverordnung

Observing the concentration ("Mengenschwellen") according to the Störfallverordnung.

## Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : 30 - 50 %

## Water hazard class

Self-classification - Class : 1 (Slightly hazardous to water)

## Additional information

Maternity regulations and Young Persons Employment Act are to take into account.

## 15.2 Chemical Safety Assessment

A chemical safety assessments was not carried out.

## SECTION 16: Other information

### 16.1 Indication of changes

None

### 16.2 Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)  
ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route)  
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany) AOX: Adsorbable Organic halogen compounds  
ATEmix: Calculated acute toxicity estimate of mixture  
BCF: Bio-Concentration Factor  
CAS: Chemical Abstract Service  
CLP: Classification, Labelling and Packaging  
CMR: Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction  
CSR: Chemical Safety Report  
DNEL: Derived No Effect Level  
EC: European Commission  
EC50: Effective Concentration 50%  
ECHA: European Chemical Agency  
EEC: European Economic Community  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
EWC: European Waste Catalogue  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
IC50: Inhibition Concentration 50%  
IMDG Code: International Maritime Dangerous Goods Code  
IMO: International Maritime Organization  
LC50: Lethal concentration 50%  
LD50: Lethal Dose 50%  
LOAEL: Lowest Observed Adverse Effect Level  
LOEL: Lowest observable effect level  
MAK: Treshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG)  
MARPOL: Convention for the Prevention of Marine Pollution from Ships  
MVZ: molar ratio  
n.a.: Not applicable  
n.d.: Not determined  
n.r.: Not relevant  
NLP: No Longer Polymers  
NOAEC: No Observed Adverse Effect Concentration  
NOAEL: No Observed Adverse Effect Level  
NOEC: No Observed Effect Concentration

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NOEL: No Observed Effect Level  
OEL: Occupational Exposure Limit  
PBT: Persistent, bioaccumulative, toxic  
PNEC: Predicted No Effect Concentration  
RCP: Reciprocal calculation procedure  
REACH: Registration, Evaluation and Authorization of Chemical  
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer)  
STEL: Short-term Exposure Limit  
SVHC: Substance of Very High Concern  
TLV - TWA: Threshold Limit Value - Time Weighted Average  
VOC: Volatile Organic Compounds  
vPvB: Very persistent, very bioaccumulative.

### 16.3 Key literature references and sources for data

None

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The evaluation of hazard information of the product was carried out in accordance to Annex I of the REGULATION (EC) No 1272/2008 (CLP Regulation).

### 16.5 Relevant H- and EUH-phrases (Number and full text)

|      |  |
|------|--|
| H220 | Extremely flammable gas.   |
| H280 | Contains gas under pressure; may explode if heated.                        |
| H302 | Harmful if swallowed.  |
| H315 | Causes skin irritation.  |
| H317 | May cause an allergic skin reaction.                                       |
| H319 | Causes serious eye irritation.   |
| H332 | Harmful if inhaled.  |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation.  |
| H351 | Suspected of causing cancer.   |
| H373 | May cause damage to organs through prolonged or repeated exposure.         |

### 16.6 Training advice

None

### 16.7 Additional information

None

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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