

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

**1.1 Product identifier**

**Montageschaum 2K für Wannen- und Duschträger**  
**Article number: 50095170**

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

**1.2.1 Relevant uses**

Assembly foam, insulating foam sealant, filling cavities in construction products and in the structure, backfilling pipe fracture.

**1.2.2 Uses advised against**

None known.

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

**Company** WESKO GmbH Sanitär- und Baubedarf  
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34537 Bad Wildungen / GERMANY  
Phone +49 (0)5621 801-333  
Fax +49 (0)5621 801-309  
E-mail wesko@wesko-sanitaer.de

**Address enquiries to**

**Technical information** wesko@wesko-sanitaer.de  
**Safety Data Sheet** sdb@chemiebuero.de

**1.4 Emergency telephone number**




**Advisory body** Germany: Poison Information Centre North +49 (0) 551-19240 (24h, available English / German)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]**

Aerosol 1: H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated.  
Acute Tox. 4: H332 Harmful if inhaled.  
Skin Irrit. 2: H315 Causes skin irritation.  
Eye Irrit. 2: H319 Causes serious eye irritation.  
Skin Sens. 1: H317 May cause an allergic skin reaction.  
Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Carc. 2: H351 Suspected of causing cancer.  
STOT SE 3: H335 May cause respiratory irritation.  
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.

## 2.2 Label elements

	The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).
<b>Hazard pictograms</b>	  
<b>Signal word</b>	DANGER
<b>Contains:</b>	Diphenylmethanediisocyanate, isomeres and homologues
<b>Hazard statements</b>	H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H332 Harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H351 Suspected of causing cancer. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure.
<b>Precautionary statements</b>	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. P261 Avoid breathing vapours / spray. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves / eye protection. P302+P352 IF ON SKIN: Wash with plenty of water / soap. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P314 Get medical advice / attention if you feel unwell. 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/national/international regulation.
<b>Special labelling</b>	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

<b>Environmental hazards</b>	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
<b>Other hazards</b>	Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances not applicable

### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
30 - 60	Diphenylmethanediisocyanate, isomeres and homologues CAS: 9016-87-9, EINECS/ELINCS: 618-498-9 GHS/CLP: Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Eye Irrit. 2: H319 - Acute Tox. 4: H332 - Resp. Sens. 1: H334 - STOT SE 3: H335 - Carc. 2: H351 - STOT RE 2: H373 SCL [%]: >= 0,1: Resp. Sens. 1: H334, >= 5: Skin Irrit. 2: H315, >= 5: Eye Irrit. 2: H319, >= 5: STOT SE 3: H335
< 20	Reaction products of phosphoryl trichloride and 2-methyloxirane CAS: 1244733-77-4, EINECS/ELINCS: 807-935-0, Reg-No.: 01-2119486772-26-XXXX GHS/CLP: Acute Tox. 4: H302
5 - 10	Ethylene glycol CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1 GHS/CLP: Acute Tox. 4: H302 - STOT RE 2: H373
5 - 10	iso-Butane CAS: 75-28-5, EINECS/ELINCS: 200-857-2, EU-INDEX: 601-004-00-0 GHS/CLP: Flam. Gas 1: H220 - Press. Gas (Compressed gas): H280
5 - 10	Dimethyl ether CAS: 115-10-6, EINECS/ELINCS: 204-065-8, EU-INDEX: 603-019-00-8, Reg-No.: 01-2119472128-37-XXXX GHS/CLP: Flam. Gas 1: H220 - Press. Gas: H280
1 - 5	Propane CAS: 74-98-6, EINECS/ELINCS: 200-827-9, EU-INDEX: 601-003-00-5 GHS/CLP: Flam. Gas 1: H220 - Press. Gas (Compressed gas): H280
1 - 3	Triethyl phosphate CAS: 78-40-0, EINECS/ELINCS: 201-114-5, EU-INDEX: 015-013-00-7 GHS/CLP: Acute Tox. 4: H302 - Eye Irrit. 2: H319

#### Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.  
 For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Take off contaminated clothing and wash before reuse.  
 Place and transport casualty in recovery position.

#### Inhalation

Ensure supply of fresh air.  
 Remove the victim into fresh air and keep him calm.  
 Get medical advice.

#### Skin contact

In case of contact with skin wash off immediately with soap and water.  
 Consult a doctor if skin irritation persists.

#### Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 If eye irritation persists: Get medical advice/attention.

#### Ingestion

Do not induce vomiting.  
 Rinse mouth.  
 Consult a doctor immediately.

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

Eye contact:  
Redness, tear flow, tissue swelling.  
Irritant effects  
Skin contact:  
Redness  
Allergic reactions  
Irritant effects  
By inhalation:  
Shortness of breath  
Cough  
Irritant effects  
If swallowed:  
Gastro-intestinal complains.  
Irritant effects

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

Treat symptomatically.  
Forward this sheet to your doctor.

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media	Dry powder. Carbon dioxide. Sand.
Extinguishing media that must not be used	Full water jet

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

Risk of formation of toxic pyrolysis products.  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)  
Isocyanate  
Hydrogen cyanide (HCN).  
Soot, hydrocarbons, aldehydes.

#### 5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.  
Use self-contained breathing apparatus.  
Cool containers at risk with water spray jet.  
Collect contaminated firefighting water separately, must not be discharged into the drains.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

### SECTION 6: Accidental release measures

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

Keep away from all sources of ignition.  
Ensure adequate ventilation.  
Wear suitable protective equipment. For personal protection see SECTION 8.  
Use breathing apparatus if exposed to vapours/aerosol.  
Remove persons to safety.

#### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.  
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

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

Cover with sand or damp earth.  
Solidify the spillage if safe to do so.  
Take up mechanically.  
Dispose of absorbed material in accordance within the regulations (Section 13).  
Remove fresh residue with PU foam cleaner.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Use only in well-ventilated areas.  
Provide suitable vacuuming at the processing area.  
Provide good room ventilation even at ground level (vapours are heavier than air).  
Avoid spilling or spraying in enclosed areas.  
Read label for instructions in use of product.

Keep away from open flames, hot surfaces and sources of ignition.  
Take precautionary measures against static discharges.  
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.  
Do not smoke.  
Vapours can form an explosive mixture with air.

Do not eat, drink or smoke when using this product.  
Take off contaminated clothing and wash before reuse.  
It is recommended to preview eye-wash bottle and showers.  
Wash hands before breaks and after work.  
Use barrier skin cream.

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

Prevent penetration into the ground.  
Observe national and local legal requirements for storage.

Keep away from water.  
Do not store together with acids.  
Do not store together with oxidizing agents.  
Do not store together with food and animal food/diet.

Keep container tightly closed.  
Keep container in a well-ventilated place.  
Protect from heat/overheating and from sun.  
Keep in a cool place. Store in a dry place.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C.  
Keep locked up, out of reach of children.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

**SECTION 8: Exposure controls / personal protection**

**8.1 Control parameters**

**Ingredients with occupational exposure limits to be monitored (GB)**

Substance
Dimethyl ether
CAS: 115-10-6, EINECS/ELINCS: 204-065-8, EU-INDEX: 603-019-00-8, Reg-No.: 01-2119472128-37-XXXX
Long-term exposure: 400 ppm, 766 mg/m <sup>3</sup>
Short-term exposure (15-minute): 500 ppm, 958 mg/m <sup>3</sup>
Ethylene glycol
CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1
Long-term exposure: 20 ppm, 52 mg/m <sup>3</sup> , Vapour, particulate: 10 mg/m <sup>3</sup>
Short-term exposure (15-minute): 40 ppm, 104 mg/m <sup>3</sup>
iso-Butane
CAS: 75-28-5, EINECS/ELINCS: 200-857-2, EU-INDEX: 601-004-00-0
Long-term exposure: 600 ppm, 1450 mg/m <sup>3</sup> , (Butane)
Short-term exposure (15-minute): 750 ppm, 1810 mg/m <sup>3</sup>
Diphenylmethanediisocyanate, isomeres and homologues
CAS: 9016-87-9, EINECS/ELINCS: 618-498-9
Long-term exposure: 0,02 mg/m <sup>3</sup> , as NCO, Sen
Short-term exposure (15-minute): 0,07 mg/m <sup>3</sup>

**Ingredients with occupational exposure limits to be monitored (EU)**

Substance / EC LIMIT VALUES
Dimethyl ether
CAS: 115-10-6, EINECS/ELINCS: 204-065-8, EU-INDEX: 603-019-00-8, Reg-No.: 01-2119472128-37-XXXX
Eight hours: 1000 ppm, 1920 mg/m <sup>3</sup>
Ethylene glycol
CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1
Eight hours: 20 ppm, 52 mg/m <sup>3</sup> , H
Short-term (15-minute): 40 ppm, 104 mg/m <sup>3</sup>

**DNEL**

Substance
Dimethyl ether, CAS: 115-10-6
Industrial, inhalative (gas), Long-term - systemic effects, 1894 mg/m <sup>3</sup>
general population, inhalative (gas), Long-term - systemic effects, 471 mg/m <sup>3</sup>
Reaction products of phosphoryl trichloride and 2-methyloxirane, CAS: 1244733-77-4
Industrial, dermal, Long-term - systemic effects, 2,91 mg/kg bw/day
Industrial, inhalative, Acute - systemic effects, 22,6 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - systemic effects, 8,2 mg/m <sup>3</sup>
general population, oral, Acute - systemic effects, 2 mg/kg bw/day
general population, oral, Long-term - systemic effects, 0,52 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 1,04 mg/kg bw/day
general population, inhalative, Acute - systemic effects, 5,6 mg/m <sup>3</sup>
general population, inhalative, Long-term - systemic effects, 1,45 mg/m <sup>3</sup>

**PNEC**

Substance
Dimethyl ether, CAS: 115-10-6
freshwater, 0,155 mg/L
seawater, 0,016 mg/L
sewage treatment plants (STP), 160 mg/L
sediment (freshwater), 0,681 mg/kg
sediment (seawater), 0,069 mg/kg
soil, 0,045 mg/kg
Reaction products of phosphoryl trichloride and 2-methyloxirane, CAS: 1244733-77-4
oral (food), 11,6 mg/kg food
soil, 0,34 mg/kg soil dw
sediment (seawater), 1,15 mg/kg sediment dw
sediment (freshwater), 11,5 mg/kg sediment dw
sewage treatment plants (STP), 19,1mg/L
seawater, 0,032 mg/L
freshwater, 0,32 mg/L

## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Using suitable discharges or exhaust ventilation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
<b>Eye protection</b>	safety glasses (EN 166:2001)
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. ≥ 0,5 mm: Butyl rubber, >480 min (EN 374-1/-2/-3). ≥ 0,35 mm: Nitrile rubber, >480 min (EN 374-1/-2/-3). ≥ 0,4 mm: Viton, >480 min (EN 374-1/-2/-3). ≥ 0,5 mm: Polychloroprene, >480 min (EN 374-1/-2/-3).
<b>Skin protection</b>	Protective clothing (EN 340)
<b>Other</b>	Keep out of the reach of children. Avoid contact with eyes and skin. Do not breathe vapour/spray. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, filter A. (DIN EN 14387)
<b>Thermal hazards</b>	No information available.
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	aerosol Foam
Color	light blue
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	> 200 (MDI, DIN 53171)
Flammability (solid, gas) [°C]	Extremely flammable aerosol.
Lower explosion limit	1,5 Vol.% (propellant)
Upper explosion limit	16 Vol.% (propellant)
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	< 0,7 mPa (20°C) (propellant) <0,00001 hPa (MDI)
Density [g/cm <sup>3</sup> ]	1,0 (20°C)
Relative density	No information available.
Bulk density [kg/m <sup>3</sup> ]	not applicable
Solubility in water	insoluble reacts with water
Solubility other solvents	soluble
Partition coefficient [n-octanol/water]	not applicable
Kinematic viscosity	≥ 200 mPas (MDI, DIN 53019, 20°C)
Relative vapour density	No information available.
Evaporation speed	No information available.
Melting point [°C]	< 0 (MDI, ISO 3016)
Auto-ignition temperature	> 350°C (propellant) > 500 °C (MDI, DIN 51794)
Decomposition temperature [°C]	No information available.
Particle characteristics	No information available.

### 9.2 Other information

The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Risk of polymerisation.  
Heat causes increase in pressure and risk of bursting.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).  
Stable under recommended storage conditions.



### 10.3 Possibility of hazardous reactions

Reactions with strong acids.

Reactions with strong oxidizing agents.

Reactions with water.

After activating the reaction mixture / assembly foam, empty the container immediately via the valve - pressure increase leads to the risk of bursting.

### 10.4 Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

Sunlight

Electrostatic charging.

See SECTION 7

### 10.5 Incompatible materials

See SECTION 10.3.

### 10.6 Hazardous decomposition products

No dangerous reactions known if used as directed.

In the event of fire: See SECTION 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute oral toxicity

Product
ATE-mix, oral, > 2000 mg/kg
Substance
Diphenylmethanediisocyanate, isomeres and homologues, CAS: 9016-87-9
LD50, oral, Rat, > 10000 mg/kg (OECD 401)
Ethylene glycol, CAS: 107-21-1
LD50, oral, Rat, 4700 mg/kg
LDLo, oral, Human, ca. 1600 mg/kg Lit.
Triethyl phosphate, CAS: 78-40-0
LD50, oral, mouse, 1600 mg/kg
Reaction products of phosphoryl trichloride and 2-methyloxirane, CAS: 1244733-77-4
LD50, oral, Rat, > 500 -2000 mg/kg

#### Acute dermal toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
Diphenylmethanediisocyanate, isomeres and homologues, CAS: 9016-87-9
LD50, dermal, Rabbit, > 9400 mg/kg (OECD 402)
Ethylene glycol, CAS: 107-21-1
LD50, dermal, mouse, > 3500 mg/kg Lit.
Triethyl phosphate, CAS: 78-40-0
LD50, dermal, Rabbit, > 5000 mg/kg
Reaction products of phosphoryl trichloride and 2-methyloxirane, CAS: 1244733-77-4
LD50, dermal, Rat, > 2000 mg/kg OECD,

#### Acute inhalational toxicity

Product
Harmful if inhaled.
Substance
Diphenylmethanediisocyanate, isomeres and homologues, CAS: 9016-87-9
LC50, inhalativ (mist), Rat, 0,31 mg/l/4h (OECD 403)
NOAEL, inhalative, Rat, 0,2 mg/m <sup>3</sup> (OECD 453)
LOAEL, inhalative, Rat, 1 mg/m <sup>3</sup> (OECD 453)
ATE, inhalativ (mist), 1,5 mg/l
iso-Butane, CAS: 75-28-5
LC50, inhalative, Rat, 570000 ppm (IUCLID)
Propane, CAS: 74-98-6
LC50, inhalative, Rat, 658 mg/L (IUCLID)
Ethylene glycol, CAS: 107-21-1
LC50, inhalative, Rat, > 200 mg/m <sup>3</sup> 4h

Dimethyl ether, CAS: 115-10-6
LC50, inhalative, Rat, 309 mg/l (4h)
Triethyl phosphate, CAS: 78-40-0
LC50, inhalativ (mist), Rat, > 8817 mg/m <sup>3</sup> (4h)
Reaction products of phosphoryl trichloride and 2-methyloxirane, CAS: 1244733-77-4
LC0, inhalative, Rat, > 7 mg/l 4h OECD 403

**Serious eye damage/irritation** Irritant  
Calculation method

Substance
Triethyl phosphate, CAS: 78-40-0
Rabbit, OECD 405, irritant
Reaction products of phosphoryl trichloride and 2-methyloxirane, CAS: 1244733-77-4
Rabbit, OECD 405, non-irritating

**Skin corrosion/irritation** Irritant  
Calculation method

Substance
Triethyl phosphate, CAS: 78-40-0
Rabbit, OECD 404, non-irritating
Reaction products of phosphoryl trichloride and 2-methyloxirane, CAS: 1244733-77-4
Rabbit, OECD 404, non-irritating

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

Substance
Triethyl phosphate, CAS: 78-40-0
mouse, in vivo (LLNA), OECD 429, non-sensitizing
Reaction products of phosphoryl trichloride and 2-methyloxirane, CAS: 1244733-77-4
mouse, in vivo (LLNA), OECD 429, non-sensitizing

**Specific target organ toxicity — single exposure** May cause respiratory irritation.  
Calculation method

**Specific target organ toxicity — repeated exposure** May cause damage to organs through prolonged or repeated exposure.  
Calculation method

Substance
Ethylene glycol, CAS: 107-21-1
NOAEL, dermal, Dog, 2200 mg/kg bw/day, adverse effect observed
NOAEL, oral, Rat, 150 mg/kg bw/day, adverse effect observed
Dimethyl ether, CAS: 115-10-6
NOAEC, inhalative, Rat, 47106 mg/m <sup>3</sup> , OECD 452

**Mutagenicity** Based on the available information, the classification criteria are not fulfilled.

**Reproduction toxicity** Based on the available information, the classification criteria are not fulfilled.

Substance
Dimethyl ether, CAS: 115-10-6
NOAEC, inhalative, Rat, 47106 mg/m <sup>3</sup> , OECD 452
NOAEC, inhalative, Rat, 75370 mg/m <sup>3</sup> , OECD 414
Reaction products of phosphoryl trichloride and 2-methyloxirane, CAS: 1244733-77-4

NOAEL, oral, Rat, 99 mg/kg bw/d (Effect on fertility), OECD 416, adverse effect observed

**Carcinogenicity** Suspected of causing cancer.  
 Calculation method

Substance

Dimethyl ether, CAS: 115-10-6

NOAEC, inhalative, Rat, 47106 mg/m<sup>3</sup>, OECD 453

**Aspiration hazard** Based on the available information, the classification criteria are not fulfilled.

**General remarks** Diphenylmethane diisocyanate, isomers and homologues:  
 In the event of overexposure, there is a risk of irritating effects on the eyes, nose, larynx and respiratory tract, regardless of the concentration. Symptoms (difficulty breathing, coughing, asthma) may occur later. In hypersensitive people, reactions can occur even at very low concentrations of isocyanate. Prolonged contact with the skin can cause dehydration and irritation.

Toxicological data of complete product are not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Substance

Diphenylmethanediisocyanate, isomeres and homologues, CAS: 9016-87-9

LC50, (96h), Danio rerio, > 1000 mg/l (OECD 203)

EC50, (24h), Daphnia magna, > 1000 mg/l (OECD 202)

EC50, (3h), Bacteria, > 100 mg/l (OECD 209)

NOEC, (21d), Daphnia magna, > 10 mg/l (OECD 202)

ErC50, (72h), Scenedesmus subspicatus, > 1640 mg/l (OECD 201)

Ethylene glycol, CAS: 107-21-1

LC50, (96h), fish, 41000 mg/l

EC50, (48h), Daphnia magna, 34250 mg/l

Dimethyl ether, CAS: 115-10-6

LC50, (96h), Poecilia reticulata, 4,1 g/L

EC50, (48h), Daphnia magna, 4,4 g/L

Triethyl phosphate, CAS: 78-40-0

LC50, (96h), fish, 2100 mg/l

EC50, (24h), Daphnia magna, 900 mg/l

EC50, (72h), Scenedesmus subspicatus, 901 mg/l

Reaction products of phosphoryl trichloride and 2-methyloxirane, CAS: 1244733-77-4

LC50, (96h), Pimephales promelas, 21 mg/l

LC50, (96h), Danio rerio, 56,2 mg/l

EC50, (72h), Pseudokirchneriella subcapitata, 82 mg/l OECD 201

EC50, (48h), Daphnia magna, 131 mg/l

NOEC, (72h), Pseudokirchneriella subcapitata, 13 mg/l OECD 201

NOEC, (21d), Daphnia magna, 32 mg/l OECD 202

### 12.2 Persistence and degradability

**Behaviour in environment compartments** No information available.

**Behaviour in sewage plant** Can be separated out mechanically in purification plants.

**Biological degradability** pMDI: 0%, 28d (OECD 302 C): The product is not readily biodegradable.

### 12.3 Bioaccumulative potential

pMDI: BCF < 14 (OECD 305)  
(Cyprinus carpio, 42 d, 0,2 mg/l)

### 12.4 Mobility in soil

The product is insoluble in water.

### 12.5 Results of PBT and vPvB assessment

not applicable

### 12.6 Endocrine disrupting properties

No information available.

### 12.7 Other adverse effects

Isocyanate reacts with water at the interface forming CO<sub>2</sub> and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by watersoluble solvents. Previous experience shows that polyurea is inert and non-degradable.  
Ecological data of complete product are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

#### Product

Dispose of as hazardous waste.  
Coordinate disposal with the authorities if necessary.

#### Waste no. (recommended)

080501\*  
160504\* gases in pressure containers (including halons) containing dangerous substances  
170203\*

#### Contaminated packaging

Uncontaminated packaging may be taken for recycling.  
Packaging that cannot be cleaned should be disposed of as for product.

#### Waste no. (recommended)

150111\*

## SECTION 14: Transport information

### 14.1 UN number or ID number


Transport by land according to ADR/RID 1950


Inland navigation (ADN) 1950


Marine transport in accordance with IMDG 1950


Air transport in accordance with IATA 1950

#### 14.2 UN proper shipping name

Transport by land according to ADR/RID Aerosols  
- Classification Code 5F  
- Label   
- ADR LQ 1 I  
- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 2 (D)

Inland navigation (ADN) Aerosols  
- Classification Code 5F  
- Label 

Marine transport in accordance with IMDG Aerosols  
- EMS F-D, S-U  
- Label   
- IMDG LQ 1 I

Air transport in accordance with IATA Aerosols, flammable  
- Label 

#### 14.3 Transport hazard class(es)

Transport by land according to ADR/RID 2

Inland navigation (ADN) 2

Marine transport in accordance with IMDG 2.1

Air transport in accordance with IATA 2.1

#### 14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

#### 14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 14.7 Maritime transport in bulk according to IMO instruments

No information available.

### SECTION 15: Regulatory information

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

**EEC-REGULATIONS** 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014

**TRANSPORT-REGULATIONS** ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)

**NATIONAL REGULATIONS (GB):** EH40/2005 Workplace exposure limits (Second edition, published December 2011).

**- Observe employment restrictions for people** Observe employment restrictions for young people.  
Observe employment restrictions for mothers-to-be and nursing mothers.  
SEVESO III ( Directive 2012/18/EU), Hazard categories in accordance with Regulation (EC) No 1272/2008:  
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**- VOC (2010/75/CE)** ca. 0,3 kg/kg

#### 15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

### SECTION 16: Other information

#### 16.1 Hazard statements (SECTION 3)

H373 May cause damage to organs through prolonged or repeated exposure.  
H280 Contains gas under pressure; may explode if heated.  
H220 Extremely flammable gas.  
H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure through inhalation.  
H351 Suspected of causing cancer.  
H335 May cause respiratory irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H332 Harmful if inhaled.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H315 Causes skin irritation.

## 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ATE = acute toxicity estimate  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
EL50 = Median effective loading  
ELINCS = European List of Notified Chemical Substances  
EmS = Emergency Schedules  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
IVIS = In vitro irritation score  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
LC0 = lethal concentration, 0%  
LOAEL = lowest-observed-adverse-effect level  
LL50 = Median lethal loading  
LQ = Limited Quantities  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
STP = Sewage Treatment Plant  
TLV@TWA = Threshold limit value – time-weighted average  
TLV@STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

## 16.3 Other information

### Classification procedure

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



**Modified position**

SECTION 2 been added: Diphenylmethanediisocyanate, isomeres and homologues  
SECTION 2 deleted: EUH204 Contains isocyanates. May produce an allergic reaction.  
SECTION 2 been added: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.  
SECTION 4 been added: Place and transport casualty in recovery position.  
SECTION 4 been added: If swallowed:  
SECTION 4 been added: Gastro-intestinal complains.  
SECTION 4 been added: Irritant effects  
SECTION 6 been added: Cover with sand or damp earth.  
SECTION 7 been added: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C.  
SECTION 7 deleted: storage stability [months]: [x]  
SECTION 7 deleted: Keep in a cool place, heat causes increase in pressure and risk of bursting.  
SECTION 7 been added: Keep locked up, out of reach of children.  
SECTION 7 deleted:  
SECTION 7 been added: storage stability [months]: [x]  
SECTION 7 been added: Observe national and local legal requirements for storage.  
SECTION 8 been added: Keep out of the reach of children.  
SECTION 15 been added: SEVESO III ( Directive 2012/18/EU), Hazard categories in accordance with Regulation (EC) No 1272/2008:  
SECTION 15 been added: P3a FLAMMABLE AEROSOLS

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