



# PR2000-ISO- SH000200

## Safety Data Sheet

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

Date of issue: 29/02/2016

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Version: 4.00

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : PR2000-ISO- SH000200  
Product code : SH000200  
Product group : Trade product

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

##### 1.2.1. Relevant identified uses

Main use category : For professional use only  
Industrial/Professional use spec : Industrial  
Use of the substance/mixture : Polyurethane resin

##### 1.2.2. Uses advised against

No additional information available

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

SYNTHENE  
Ferme de l'Evêché CS20308  
60723 Pont Sainte Maxence Cedex - FRANCE  
T 33 344 31 72 00 - F 33 157 67 44 58  
[qual@synthene.com](mailto:qual@synthene.com) - [www.synthene.com](http://www.synthene.com)

#### 1.4. Emergency telephone number

| Country        | Organisation/Company                                                                                           | Address                         | Emergency number | Comment |
|----------------|----------------------------------------------------------------------------------------------------------------|---------------------------------|------------------|---------|
| United Kingdom | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit, Centre<br>Hospitalier Universitaire de Constantine | Avonley Road<br>SE14 5ER London | 0870 243 2241    |         |

### SECTION 2: Hazards identification

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

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

|                                                                                            |      |                               |
|--------------------------------------------------------------------------------------------|------|-------------------------------|
| Acute toxicity (inhalation:dust,mist) Category 4                                           | H332 | Conversion selon l'Annexe VII |
| Skin corrosion/irritation, Category 2                                                      | H315 | Méthode de calcul             |
| Serious eye damage/eye irritation, Category 2                                              | H319 | Méthode de calcul             |
| Sensitisation — Respiratory, category 1                                                    | H334 | Méthode de calcul             |
| Sensitisation — Skin, category 1                                                           | H317 | Méthode de calcul             |
| Carcinogenicity, Category 2                                                                | H351 | Méthode de calcul             |
| Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation | H335 | Méthode de calcul             |
| Specific target organ toxicity — Repeated exposure, Category 2                             | H373 | Méthode de calcul             |

Full text of H statements : see section 16

##### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Carc.Cat.3; R40  
Xn; R20  
Xn; R48/20  
R42  
Xi; R36/37/38  
R43

Full text of R-phrases: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

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### 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazardous ingredients

: 4,4'-Methylenediphenyl diisocyanate, oligomers; 4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate

Hazard statements (CLP)

: 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

Precautionary statements (CLP)

: P260 - Do not breathe vapours, spray  
P280 - Wear protective gloves, eye protection, face protection, protective clothing  
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  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P308+P313 - IF exposed or concerned: Get medical advice/attention

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name                                                                                    | Product identifier                                                                                   | %         | Classification according to Directive 67/548/EEC                        | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                                                                              |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4,4'-Methylenediphenyl diisocyanate, oligomers                                          | (CAS No) 25686-28-6<br>(EC no) 500-040-3<br>(REACH-no) 01-2119457013-49                              | 25 - 50   | Carc.Cat.3; R40<br>Xn; R20<br>Xn; R48/20<br>R42<br>Xi; R36/37/38<br>R43 | Acute Tox. 4 (Inhalation), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>Carc. 2, H351<br>STOT SE 3, H335<br>STOT RE 2, H373             |
| 4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (Note C)(Note 2) | (CAS No) 101-68-8<br>(EC no) 202-966-0<br>(EC index no) 615-005-00-9                                 | 25 - 50   | Carc.Cat.3; R40<br>Xn; R20<br>Xn; R48/20<br>Xi; R36/37/38<br>R42<br>R43 | Carc. 2, H351<br>Acute Tox. 4 (Inhalation), H332<br>STOT RE 2, H373<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Skin Irrit. 2, H315<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317             |
| Xylene substance with a Community workplace exposure limit                              | (CAS No) 1330-20-7<br>(EC no) 215-535-7<br>(EC index no) 601-022-00-9<br>(REACH-no) 01-2119488216-32 | 0,1 - 0,5 | Xn; R20/21<br>Xi; R38<br>R10                                            | Flam. Liq. 3, H226<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation), H332<br>Skin Irrit. 2, H315<br>Asp. Tox. 1, H304<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>STOT RE 2, H373 |
| Ethylbenzene substance with a Community workplace exposure limit                        | (CAS No) 100-41-4<br>(EC no) 202-849-4<br>(EC index no) 601-023-00-4<br>(REACH-no) 01-2119489370-35  | < 0,1     | F; R11<br>Xn; R20                                                       | Flam. Liq. 2, H225<br>Acute Tox. 4 (Inhalation), H332<br>Asp. Tox. 1, H304<br>Eye Irrit. 2, H319<br>Skin Irrit. 2, H315<br>STOT SE 3, H335<br>STOT RE 2, H373                                |

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| Name                                                                                   | Product identifier                                                                                  | %     | Classification according to Directive 67/548/EEC                     | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                        |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 2-methoxy-1-methylethyl acetate<br>substance with a Community workplace exposure limit | (CAS No) 108-65-6<br>(EC no) 203-603-9<br>(EC index no) 607-195-00-7<br>(REACH-no) 01-2119475791-29 | < 0,1 | R10                                                                  | Flam. Liq. 3, H226                                                                                                     |
| Toluene<br>substance with a Community workplace exposure limit                         | (CAS No) 108-88-3<br>(EC no) 203-625-9<br>(EC index no) 601-021-00-3<br>(REACH-no) 01-2119471310-51 | < 0,1 | Repr.Cat.3; R63<br>F; R11<br>Xn; R65<br>Xn; R48/20<br>Xi; R38<br>R67 | Flam. Liq. 2, H225<br>Repr. 2, H361d<br>Asp. Tox. 1, H304<br>STOT RE 2, H373<br>Skin Irrit. 2, H315<br>STOT SE 3, H336 |

### Specific concentration limits:

| Name                                                                      | Product identifier                                                                                   | Specific concentration limits: DSD/DPD   | Specific concentration limits: CLP                                                                                      |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 4,4'-methylenediphenyl diisocyanate,<br>diphenylmethane-4,4'-diisocyanate | (CAS No) 101-68-8<br>(EC no) 202-966-0<br>(EC index no) 615-005-00-9                                 | (C >= 0,1) R42<br>(C >= 5) Xi; R36/37/38 | (C >= 1) Resp. Sens. 1, H334<br>(C >= 5) Eye Irrit. 2, H319<br>(C >= 5) STOT SE 3, H335<br>(C >= 5) Skin Irrit. 2, H315 |
| Xylene                                                                    | (CAS No) 1330-20-7<br>(EC no) 215-535-7<br>(EC index no) 601-022-00-9<br>(REACH-no) 01-2119488216-32 | (C >= 12,5) Xn; R20/21                   |                                                                                                                         |

Note 2 : La concentration d'isocyanates donnée est le pourcentage en poids du monomère libre, calculé par rapport au poids total du mélange.

Note C : Certaines substances organiques peuvent être commercialisées soit sous une forme isomérique bien définie, soit sous forme de mélange de plusieurs isomères. Dans ces cas-là, le fournisseur doit préciser sur l'étiquette si la substance est un isomère spécifique ou un mélange d'isomères.

Full text of R- and H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |                                                                                                                                                                                                                                   |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).                                                                                                 |
| First-aid measures after inhalation   | : Move to fresh air in case of accidental inhalation of vapours or decomposition products. Allow breathing of fresh air. Get immediate medical advice/attention.                                                                  |
| First-aid measures after skin contact | : Remove/Take off immediately all contaminated clothing. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention. |
| First-aid measures after eye contact  | : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Contact ophthalmologist immediately.                                                                                |
| First-aid measures after ingestion    | : Do not give anything to drink. Do not induce vomiting. If swallowed, seek medical advice immediately and show this container or label.                                                                                          |

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

|                                      |                                                                                                                                  |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/injuries after inhalation   | : Toxic if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Symptoms/injuries after skin contact | : Irritating to skin. May cause an allergic skin reaction. May cause sensitisation by skin contact.                              |
| Symptoms/injuries after eye contact  | : Causes serious eye irritation.                                                                                                 |

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |                                                    |
|--------------------------------|----------------------------------------------------|
| Suitable extinguishing media   | : Carbon dioxide. Dry powder.                      |
| Unsuitable extinguishing media | : Do not use extinguishing media containing water. |

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

|                                                  |                                                                                                                                        |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Fire hazard                                      | : In case of fire and/or explosion do not breathe fumes. Isocyanates. Nitrogen oxides. Risk of decomposition. Carbon oxides (CO, CO2). |
| Hazardous decomposition products in case of fire | : Isocyanates. Nitrogen oxides. Carbon oxides (CO, CO2). Hydrogen cyanide. Risk of decomposition.                                      |

### 5.3. Advice for firefighters

|                                |                                                                                                            |
|--------------------------------|------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection.            |

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### SECTION 6: Accidental release measures

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

General measures : Provide local exhaust or general room ventilation.

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate area.

##### 6.1.2. For emergency responders

Protective equipment : Only qualified personnel equipped with suitable protective equipment may intervene. Equip cleanup crew with proper protection. Do not breathe gas, fumes, vapour or spray.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

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

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Prevent product from entering drains. Shovel into suitable and closed container for disposal. Do not keep the container sealed. Carbon dioxide (CO<sub>2</sub>). Dispose of this material and its container to hazardous or special waste collection point.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. Do not get in eyes, on skin, or on clothing. Use personal protective equipment as required.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Regular cleaning of equipment, work area and clothing.

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

Technical measures : Store only in the original container in a cool well-ventilated place away from cellulose.

Storage conditions : Store at temperatures between 5 - 25°C.

Packaging materials : Keep away from food, drink and animal feedstuffs. The floor of the depot should be impermeable and designed to form a water-tight basin.

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| 4,4'-Méthylenediphenyl diisocyanate, oligomers (25686-28-6) |                                         |                                     |
|-------------------------------------------------------------|-----------------------------------------|-------------------------------------|
| France                                                      | VME (mg/m <sup>3</sup> )                | 0,1 mg/m <sup>3</sup> 8 heure(s)    |
| France                                                      | VME (ppm)                               | 0,01 ppm 8 heure(s)                 |
| France                                                      | VLE (mg/m <sup>3</sup> )                | 0,2 mg/m <sup>3</sup> 5 minute(s)   |
| France                                                      | VLE (ppm)                               | 0,02 ppm 5 minute(s)                |
| 2-methoxy-1-methylethyl acetate (108-65-6)                  |                                         |                                     |
| EU                                                          | Local name                              | 2-Methoxy-1-methylethylacetate      |
| EU                                                          | IOELV TWA (mg/m <sup>3</sup> )          | 275 mg/m <sup>3</sup>               |
| EU                                                          | IOELV TWA (ppm)                         | 50 ppm                              |
| EU                                                          | IOELV STEL (mg/m <sup>3</sup> )         | 550 mg/m <sup>3</sup>               |
| EU                                                          | IOELV STEL (ppm)                        | 100 ppm                             |
| EU                                                          | Notes                                   | Skin                                |
| France                                                      | Local name                              | Acétate de 2-méthoxy-1-méthyléthyle |
| France                                                      | VME (mg/m <sup>3</sup> )                | 275 mg/m <sup>3</sup>               |
| France                                                      | VME (ppm)                               | 50 ppm                              |
| France                                                      | VLE (mg/m <sup>3</sup> )                | 550 mg/m <sup>3</sup>               |
| France                                                      | VLE (ppm)                               | 100 ppm                             |
| Netherlands                                                 | Grenswaarde TGG 8H (mg/m <sup>3</sup> ) | 550 mg/m <sup>3</sup>               |
| Xylene (1330-20-7)                                          |                                         |                                     |
| EU                                                          | Local name                              | Xylene, mixed isomers, pure         |
| EU                                                          | IOELV TWA (mg/m <sup>3</sup> )          | 221 mg/m <sup>3</sup>               |
| EU                                                          | IOELV TWA (ppm)                         | 50 ppm                              |
| EU                                                          | IOELV STEL (mg/m <sup>3</sup> )         | 442 mg/m <sup>3</sup>               |

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| Xylene (1330-20-7)                                                                |                               |                                          |
|-----------------------------------------------------------------------------------|-------------------------------|------------------------------------------|
| EU                                                                                | IOELV STEL (ppm)              | 100 ppm                                  |
| EU                                                                                | Notes                         | Skin                                     |
| France                                                                            | Local name                    | Xylène, isomères mixtes, purs            |
| France                                                                            | VME (mg/m³)                   | 221 mg/m³                                |
| France                                                                            | VME (ppm)                     | 50 ppm                                   |
| France                                                                            | VLE (mg/m³)                   | 442 mg/m³                                |
| France                                                                            | VLE (ppm)                     | 100 ppm                                  |
| Netherlands                                                                       | Grenswaarde TGG 8H (mg/m³)    | 210 mg/m³                                |
| Netherlands                                                                       | Grenswaarde TGG 15MIN (mg/m³) | 442 mg/m³                                |
| Ethylbenzene (100-41-4)                                                           |                               |                                          |
| EU                                                                                | Local name                    | Ethylbenzene                             |
| EU                                                                                | IOELV TWA (mg/m³)             | 442 mg/m³                                |
| EU                                                                                | IOELV TWA (ppm)               | 100 ppm                                  |
| EU                                                                                | IOELV STEL (mg/m³)            | 884 mg/m³                                |
| EU                                                                                | IOELV STEL (ppm)              | 200 ppm                                  |
| EU                                                                                | Notes                         | Skin                                     |
| Netherlands                                                                       | Grenswaarde TGG 8H (mg/m³)    | 215 mg/m³                                |
| Netherlands                                                                       | Grenswaarde TGG 15MIN (mg/m³) | 430 mg/m³                                |
| Toluene (108-88-3)                                                                |                               |                                          |
| EU                                                                                | Local name                    | Toluène                                  |
| EU                                                                                | IOELV TWA (mg/m³)             | 192 mg/m³                                |
| EU                                                                                | IOELV TWA (ppm)               | 50 ppm                                   |
| EU                                                                                | IOELV STEL (mg/m³)            | 384 mg/m³                                |
| EU                                                                                | IOELV STEL (ppm)              | 100 ppm                                  |
| EU                                                                                | Notes                         | Peau                                     |
| France                                                                            | Local name                    | Toluène                                  |
| France                                                                            | VME (mg/m³)                   | 192 mg/m³                                |
| France                                                                            | VME (ppm)                     | 50 ppm                                   |
| France                                                                            | VLE (mg/m³)                   | 384 mg/m³                                |
| France                                                                            | VLE (ppm)                     | 100 ppm                                  |
| Netherlands                                                                       | Grenswaarde TGG 8H (mg/m³)    | 150 mg/m³                                |
| Netherlands                                                                       | Grenswaarde TGG 15MIN (mg/m³) | 384 mg/m³                                |
| 4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8) |                               |                                          |
| France                                                                            | Local name                    | 4,4'-Diisocyanate de diphenylméthane (3) |
| France                                                                            | VME (mg/m³)                   | 0,1 mg/m³                                |
| France                                                                            | VME (ppm)                     | 0,01 ppm                                 |
| France                                                                            | VLE (mg/m³)                   | 0,2 mg/m³                                |
| France                                                                            | VLE (ppm)                     | 0,02 ppm                                 |
| Netherlands                                                                       | Grenswaarde TGG 8H (mg/m³)    | 0,05 mg/m³                               |
| Netherlands                                                                       | Grenswaarde TGG 15MIN (mg/m³) | 0,2 mg/m³                                |

### 8.2. Exposure controls

|                               |                                                                                                                                                |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal protective equipment | : Gloves. Safety glasses. Insufficient ventilation: wear respiratory protection. Protective clothing.                                          |
| Hand protection               | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wear protective gloves |
| Eye protection                | : Chemical goggles or face shield                                                                                                              |
| Skin and body protection      | : Wear suitable protective clothing                                                                                                            |
| Respiratory protection        | : In case of insufficient ventilation, wear suitable respiratory equipment                                                                     |



|                   |                                                                                                                                                                                                                       |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other information | : Do not eat, drink or smoke during use. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Regular cleaning of equipment, work area and clothing. |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|                                            |                       |
|--------------------------------------------|-----------------------|
| Physical state                             | : Liquid              |
| Colour                                     | : yellowish.          |
| Odour                                      | : Solvent.            |
| Odour threshold                            | : No data available   |
| pH                                         | : No data available   |
| Relative evaporation rate (butylacetate=1) | : No data available   |
| Melting point                              | : No data available   |
| Freezing point                             | : No data available   |
| Boiling point                              | : No data available   |
| Flash point                                | : > 140 °C            |
| Auto-ignition temperature                  | : No data available   |
| Decomposition temperature                  | : No data available   |
| Flammability (solid, gas)                  | : No data available   |
| Vapour pressure                            | : No data available   |
| Relative vapour density at 20 °C           | : No data available   |
| Relative density                           | : 1,15 (25°C)         |
| Solubility                                 | : Insoluble in water. |
| Log Pow                                    | : No data available   |
| Viscosity, kinematic                       | : No data available   |
| Viscosity, dynamic                         | : 60 mPa.s            |
| Explosive properties                       | : No data available   |
| Oxidising properties                       | : No data available   |
| Explosive limits                           | : No data available   |

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

The product is stable at normal handling and storage conditions. No decomposition if stored normally.

#### 10.3. Possibility of hazardous reactions

Exothermic reaction on contact with : Strong bases. Alcohol. Amines. Ammonia.

#### 10.4. Conditions to avoid

High temperature. Water, humidity.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Contact with water liberates toxic gas.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Inhalation:dust,mist: Harmful if inhaled.

|                                                                    |                         |
|--------------------------------------------------------------------|-------------------------|
| ATE CLP (dust,mist)                                                | 1,500 mg/l/4h           |
| <b>4,4'-Methylenediphenyl diisocyanate, oligomers (25686-28-6)</b> |                         |
| LD50 oral rat                                                      | > 5000 ml/kg            |
| LD50 dermal rabbit                                                 | > 9400 mg/kg            |
| LC50 inhalation rat (Dust/Mist - mg/l/4h)                          | 0,49 mg/l/4h            |
| <b>2-methoxy-1-methylethyl acetate (108-65-6)</b>                  |                         |
| LD50 oral                                                          | 8532 mg/kg bodyweight   |
| LD50 dermal                                                        | > 5000 mg/kg bodyweight |
| LC50 inhalation rat (Dust/Mist - mg/l/4h)                          | > 10800 mg/l/4h         |

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| <b>Xylene (1330-20-7)</b>                 |                         |
|-------------------------------------------|-------------------------|
| LD50 oral rat                             | 3500 mg/kg              |
| LD50 oral                                 | 4300 mg/kg bodyweight   |
| LD50 dermal rat                           | 4350 mg/kg              |
| LD50 dermal                               | > 5000 mg/kg bodyweight |
| LC50 inhalation rat (mg/l)                | 5334 mg/l/4h            |
| LC50 inhalation rat (ppm)                 | 6700 ppm/4h             |
| LC50 inhalation rat (Dust/Mist - mg/l/4h) | > 10000 mg/l/4h         |
| LC50 inhalation rat (Vapours - mg/l/4h)   | > 2 mg/l/4h             |

| <b>Ethylbenzene (100-41-4)</b>            |                        |
|-------------------------------------------|------------------------|
| LD50 oral                                 | 3500 mg/kg bodyweight  |
| LD50 dermal                               | 15350 mg/kg bodyweight |
| LC50 inhalation rat (Dust/Mist - mg/l/4h) | 17200 mg/l/4h          |

| <b>Toluene (108-88-3)</b>                 |                        |
|-------------------------------------------|------------------------|
| LD50 oral rat                             | 5000 mg/kg             |
| LD50 oral                                 | 5580 mg/kg bodyweight  |
| LD50 dermal rabbit                        | 12124 mg/kg            |
| LD50 dermal                               | 12124 mg/kg bodyweight |
| LC50 inhalation rat (Dust/Mist - mg/l/4h) | 28100 mg/l/4h          |
| LC50 inhalation rat (Vapours - mg/l/4h)   | < 20 mg/l/4h           |

| <b>4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8)</b> |              |
|------------------------------------------------------------------------------------------|--------------|
| LD50 oral rat                                                                            | > 5000 mg/kg |
| LD50 dermal rabbit                                                                       | > 9400 mg/kg |
| LC50 inhalation rat (Dust/Mist - mg/l/4h)                                                | 0,49 mg/l/4h |

|                                                    |                                                                                                                   |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Skin corrosion/irritation                          | : Causes skin irritation.                                                                                         |
| Serious eye damage/irritation                      | : Causes serious eye irritation.                                                                                  |
| Respiratory or skin sensitisation                  | : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. |
| Germ cell mutagenicity                             | : Not classified                                                                                                  |
| Carcinogenicity                                    | : Suspected of causing cancer.                                                                                    |
| Reproductive toxicity                              | : Not classified                                                                                                  |
| Specific target organ toxicity (single exposure)   | : May cause respiratory irritation.                                                                               |
| Specific target organ toxicity (repeated exposure) | : May cause damage to organs through prolonged or repeated exposure.                                              |
| Aspiration hazard                                  | : Not classified                                                                                                  |

## SECTION 12: Ecological information

### 12.1. Toxicity

| <b>4,4'-Methylenediphenyl diisocyanate, oligomers (25686-28-6)</b> |             |
|--------------------------------------------------------------------|-------------|
| LC50 fish 1                                                        | > 1000 mg/l |
| EC50 Daphnia 1                                                     | > 1000 mg/l |
| EC50 72h algae (1)                                                 | > 1640 mg/l |

| <b>2-methoxy-1-methylethyl acetate (108-65-6)</b> |                                   |
|---------------------------------------------------|-----------------------------------|
| LC50 fish 1                                       | 134 mg/l                          |
| EC50 other aquatic organisms 1                    | 1000 mg/l EC50 waterflea (48 h)   |
| EC50 other aquatic organisms 2                    | > 1000 mg/l IC50 alga (72 h) mg/l |

| <b>Xylene (1330-20-7)</b>      |                                |
|--------------------------------|--------------------------------|
| LC50 fish 1                    | > 86 mg/l                      |
| LC50 other aquatic organisms 1 | 3,82 mg/l                      |
| EC50 Daphnia 1                 | 1 mg/l (48 h)                  |
| EC50 other aquatic organisms 1 | 350 mg/l EC50 waterflea (48 h) |
| EC50 other aquatic organisms 2 | 350 mg/l IC50 alga (72 h) mg/l |

| <b>Ethylbenzene (100-41-4)</b> |                                |
|--------------------------------|--------------------------------|
| LC50 fish 1                    | 12,1 mg/l                      |
| EC50 other aquatic organisms 1 | 2,2 mg/l EC50 waterflea (48 h) |

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| Toluene (108-88-3)                                                                |                                 |
|-----------------------------------------------------------------------------------|---------------------------------|
| LC50 fish 1                                                                       | 5,5 mg/l                        |
| EC50 Daphnia 1                                                                    | 11,5 mg/l                       |
| EC50 other aquatic organisms 1                                                    | 3,78 mg/l EC50 waterflea (48 h) |
| 4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8) |                                 |
| LC50 fish 1                                                                       | > 1000 mg/l                     |
| EC50 Daphnia 1                                                                    | > 1000 mg/l                     |
| EC50 72h algae (1)                                                                | > 1640 mg/l                     |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

| 4,4'-Méthylenediphenyl diisocyanate, oligomers (25686-28-6)                       |                  |
|-----------------------------------------------------------------------------------|------------------|
| Log Pow                                                                           | 8,56             |
| Bioaccumulative potential                                                         | bioaccumulative. |
| Ethylbenzene (100-41-4)                                                           |                  |
| Log Pow                                                                           | 3,11 - 3,15      |
| 4,4'-methylenediphenyl diisocyanate, diphenylmethane-4,4'-diisocyanate (101-68-8) |                  |
| Log Pow                                                                           | 8,56             |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                |                                                                                                                                                          |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations.                                                                                |
| Ecology - waste materials      | : Avoid release to the environment. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. |

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

|               |                  |
|---------------|------------------|
| UN-No. (ADR)  | : Not applicable |
| UN-No. (IMDG) | : Not applicable |
| UN-No. (IATA) | : Not applicable |
| UN-No. (ADN)  | : Not applicable |
| UN-No. (RID)  | : Not applicable |

### 14.2. UN proper shipping name

|                             |                  |
|-----------------------------|------------------|
| Proper Shipping Name (ADR)  | : Not applicable |
| Proper Shipping Name (IMDG) | : Not applicable |
| Proper Shipping Name (IATA) | : Not applicable |
| Proper Shipping Name (ADN)  | : Not applicable |
| Proper Shipping Name (RID)  | : Not applicable |

### 14.3. Transport hazard class(es)

#### ADR

|                                  |                  |
|----------------------------------|------------------|
| Transport hazard class(es) (ADR) | : Not applicable |
|----------------------------------|------------------|

#### IMDG

|                                   |                  |
|-----------------------------------|------------------|
| Transport hazard class(es) (IMDG) | : Not applicable |
|-----------------------------------|------------------|

#### IATA

|                                   |                  |
|-----------------------------------|------------------|
| Transport hazard class(es) (IATA) | : Not applicable |
|-----------------------------------|------------------|

#### ADN



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Transport hazard class(es) (ADN) : Not applicable

### RID

Transport hazard class(es) (RID) : Not applicable

### 14.4. Packing group

Packing group (ADR) : Not applicable  
Packing group (IMDG) : Not applicable  
Packing group (IATA) : Not applicable  
Packing group (ADN) : Not applicable  
Packing group (RID) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

Transport regulations (ADR) : Not subject

#### - Transport by sea

Transport regulations (IMDG) : Not subject

#### - Air transport

Transport regulations (IATA) : Not subject

#### - Inland waterway transport

No data available

#### - Rail transport

No data available

### 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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions  
Contains no substance on the REACH candidate list  
Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

##### Germany

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4)  
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed  
SZW-lijst van mutagene stoffen : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : Xylene, Toluene are listed

##### Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

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Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product  
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Full text of R-, H- and EUH-statements:

|                           |                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------|
| Acute Tox. 4 (Dermal)     | Acute toxicity (dermal), Category 4                                                        |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4                                                        |
| Asp. Tox. 1               | Aspiration hazard, Category 1                                                              |
| Carc. 2                   | Carcinogenicity, Category 2                                                                |
| Eye Irrit. 2              | Serious eye damage/eye irritation, Category 2                                              |
| Flam. Liq. 2              | Flammable liquids, Category 2                                                              |
| Flam. Liq. 3              | Flammable liquids, Category 3                                                              |
| Repr. 2                   | Reproductive toxicity, Category 2                                                          |
| Resp. Sens. 1             | Sensitisation — Respiratory, category 1                                                    |
| Skin Irrit. 2             | Skin corrosion/irritation, Category 2                                                      |
| Skin Sens. 1              | Sensitisation — Skin, category 1                                                           |
| STOT RE 2                 | Specific target organ toxicity — Repeated exposure, Category 2                             |
| STOT SE 3                 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| STOT SE 3                 | Specific target organ toxicity — Single exposure, Category 3, Narcosis                     |
| H225                      | Highly flammable liquid and vapour                                                         |
| H226                      | Flammable liquid and vapour                                                                |
| H304                      | May be fatal if swallowed and enters airways                                               |
| H312                      | Harmful in contact with skin                                                               |
| 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                                                           |
| H336                      | May cause drowsiness or dizziness                                                          |
| H351                      | Suspected of causing cancer                                                                |
| H361d                     | Suspected of damaging the unborn child                                                     |
| H373                      | May cause damage to organs through prolonged or repeated exposure                          |
| R10                       | Flammable                                                                                  |
| R11                       | Highly flammable                                                                           |
| R20                       | Harmful by inhalation                                                                      |
| R20/21                    | Harmful by inhalation and in contact with skin                                             |
| R36/37/38                 | Irritating to eyes, respiratory system and skin                                            |
| R38                       | Irritating to skin                                                                         |
| R40                       | Limited evidence of a carcinogenic effect                                                  |
| R42                       | May cause sensitization by inhalation                                                      |
| R43                       | May cause sensitisation by skin contact                                                    |
| R48/20                    | Harmful: danger of serious damage to health by prolonged exposure through inhalation       |
| R63                       | Possible risk of harm to the unborn child                                                  |
| R65                       | Harmful: may cause lung damage if swallowed                                                |
| R67                       | Vapours may cause drowsiness and dizziness                                                 |
| F                         | Highly flammable                                                                           |
| Xi                        | Irritant                                                                                   |
| Xn                        | Harmful                                                                                    |

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*