

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

## Sika® Primer-290 DC



Revision Date: 09.02.2026  
Date of last issue: 12.05.2025

Version 5.0

Print Date 12.03.2026

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

#### 1.1 Product identifier

Trade name : Sika® Primer-290 DC

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

Product use : Primer, Pretreatment agent

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

Company name of supplier : Sika Ireland Ltd  
Sika House  
Ballymun Industrial Estate  
Dublin 11  
Telephone : +353 1862 0709  
E-mail address of person : EHS@UK.Sika.com  
responsible for the SDS

#### 1.4 Emergency telephone number

National Poisons Information Centre (NPIC) (01) 809 2166  
(available 8am - 10pm every day)

Sika Ireland (01) 862 0709 (available during office hours)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

|                                                                                      |                                            |
|--------------------------------------------------------------------------------------|--------------------------------------------|
| Flammable liquids, Category 2                                                        | H225: Highly flammable liquid and vapour.  |
| Eye irritation, Category 2                                                           | H319: Causes serious eye irritation.       |
| Skin sensitisation, Category 1                                                       | H317: May cause an allergic skin reaction. |
| Specific target organ toxicity - single exposure, Category 3, Central nervous system | H336: May cause drowsiness or dizziness.   |

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :  

Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.

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H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

Supplemental Hazard Statements : EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements : **Prevention:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P261 Avoid breathing mist or vapours.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

### Hazardous components which must be listed on the label:

ethyl acetate

Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane

Aromatic Polyisocyanate-Prepolymer

hexamethylene-di-isocyanate

m-tolylidene diisocyanate

### 2.3 Other hazards

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

| Chemical name                                                                                 | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number              | Classification                                                                                                                                                                                                                                | Concentration<br>(% w/w) |
|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| ethyl acetate                                                                                 | 141-78-6<br>205-500-4<br>607-022-00-5<br>01-2119475103-46-XXXX     | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336<br>(Central nervous system)<br>EUH066                                                                                                                                             | >= 25 - < 40             |
| butanone                                                                                      | 78-93-3<br>201-159-0<br>606-002-00-3<br>01-2119457290-43-XXXX      | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336<br>(Central nervous system)<br>EUH066                                                                                                                                             | >= 10 - < 20             |
| Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane | 192526-20-8<br>924-669-1<br>01-2120768758-32-XXXX                  | Skin Sens. 1A; H317                                                                                                                                                                                                                           | >= 5 - < 10              |
| n-butyl acetate                                                                               | 123-86-4<br>204-658-1<br>607-025-00-1<br>01-2119485493-29-XXXX     | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>(Central nervous system)<br>EUH066                                                                                                                                                                   | >= 5 - < 10              |
| Aromatic Polyisocyanate-Prepolymer                                                            | 68958-67-8<br>Not Assigned                                         | Eye Irrit. 2; H319<br>Skin Sens. 1; H317                                                                                                                                                                                                      | >= 2,5 - < 5             |
| 2-methoxy-1-methylethyl acetate<br>Contains:<br>2-methoxypropyl acetate <= 1 %                | 108-65-6<br>203-603-9<br>607-195-00-7<br>01-2119475791-29-XXXX     | Flam. Liq. 3; H226<br>STOT SE 3; H336                                                                                                                                                                                                         | >= 1 - < 2,5             |
| reaction mass of ethylbenzene and xylene                                                      | Not Assigned<br>905-588-0<br>601-022-00-9<br>01-2119488216-32-XXXX | Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>(Respiratory system)<br>STOT RE 2; H373<br>(hearing organs)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 3; H412 | >= 1 - < 2,5             |

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|                             |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |
|-----------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| hexamethylene-di-isocyanate | 822-06-0<br>212-485-8<br>615-011-00-1<br>01-2119457571-37-XXXX | Acute Tox. 4; H302<br>Acute Tox. 1; H330<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Resp. Sens. 1; H334<br>Skin Sens. 1; H317<br>STOT SE 3; H335<br>(Respiratory system)<br><br>specific concentration<br>limit<br>Resp. Sens. 1; H334<br>>= 0,5 %<br><br>specific concentration<br>limit<br>Skin Sens. 1; H317<br>>= 0,5 %<br><br>Acute toxicity estimate<br><br>Acute oral toxicity:<br>746 mg/kg<br>Acute inhalation toxicity (vapour): 0,124 mg/l | < 0,1 |
|-----------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|

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|                           |                                                                  |                                                                                                                                                                                                                                                                                                                                                                |                 |
|---------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| m-tolylidene diisocyanate | 26471-62-5<br>247-722-4<br>615-006-00-4<br>01-2119454791-34-XXXX | Acute Tox. 1; H330<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>(Respiratory system)<br>Aquatic Chronic 3; H412<br><br>specific concentration limit<br>Resp. Sens. 1; H334<br>≥ 0,1 %<br><br>Acute toxicity estimate<br><br>Acute inhalation toxicity (vapour): 0,107 mg/l | ≥ 0,025 - < 0,1 |
|---------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.  
Consult a physician after significant exposure.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Do not induce vomiting without medical advice.  
Rinse mouth with water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.

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

|          |                                                                                                                                                                                                                        |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms | : Allergic reactions<br>Excessive lachrymation<br>Erythema<br>Loss of balance<br>Vertigo<br>See Section 11 for more detailed information on health effects and symptoms.                                               |
| Risks    | : irritant effects<br>sensitising effects<br><br>May cause an allergic skin reaction.<br>Causes serious eye irritation.<br>May cause drowsiness or dizziness.<br>Repeated exposure may cause skin dryness or cracking. |

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

|           |                          |
|-----------|--------------------------|
| Treatment | : Treat symptomatically. |
|-----------|--------------------------|

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

|                                |                                                                               |
|--------------------------------|-------------------------------------------------------------------------------|
| Suitable extinguishing media   | : Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical |
| Unsuitable extinguishing media | : Water<br>High volume water jet                                              |

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

|                                       |                                                                      |
|---------------------------------------|----------------------------------------------------------------------|
| Specific hazards during fire-fighting | : Do not use a solid water stream as it may scatter and spread fire. |
| Hazardous combustion products         | : No hazardous combustion products are known                         |

### 5.3 Advice for firefighters

|                                               |                                                                  |
|-----------------------------------------------|------------------------------------------------------------------|
| Special protective equipment for firefighters | : In the event of fire, wear self-contained breathing apparatus. |
| Further information                           | : Use water spray to cool unopened containers.                   |

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### SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Remove all sources of ignition.  
Deny access to unprotected persons.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

#### 6.4 Reference to other sections

For personal protection see section 8.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours or spray mist.  
Avoid exceeding the given occupational exposure limits (see section 8).  
Do not get in eyes, on skin, or on clothing.  
For personal protection see section 8.  
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharge.  
Open drum carefully as content may be under pressure.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).  
Follow standard hygiene measures when handling chemical products

Advice on protection against fire and explosion : Use explosion-proof equipment. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. Take precautionary measures against electrostatic discharges.

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Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : Store in cool place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with local regulations.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Consult most current local Product Data Sheet prior to any use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components                                                                                                                                        | CAS-No.  | Value type (Form of exposure) | Control parameters *   | Basis *      |
|---------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------|------------------------|--------------|
| ethyl acetate                                                                                                                                     | 141-78-6 | STEL                          | 400 ppm<br>1.468 mg/m3 | 2017/164/EU  |
| Further information: Indicative                                                                                                                   |          |                               |                        |              |
|                                                                                                                                                   |          | TWA                           | 200 ppm<br>734 mg/m3   | 2017/164/EU  |
|                                                                                                                                                   |          | OELV - 8 hrs (TWA)            | 200 ppm<br>734 mg/m3   | IE OEL       |
|                                                                                                                                                   |          | OELV - 15 min (STEL)          | 400 ppm<br>1.468 mg/m3 | IE OEL       |
| butanone                                                                                                                                          | 78-93-3  | TWA                           | 200 ppm<br>600 mg/m3   | 2000/39/EC   |
| Further information: Indicative                                                                                                                   |          |                               |                        |              |
|                                                                                                                                                   |          | STEL                          | 300 ppm<br>900 mg/m3   | 2000/39/EC   |
|                                                                                                                                                   |          | OELV - 8 hrs (TWA)            | 200 ppm<br>600 mg/m3   | IE OEL       |
| Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body |          |                               |                        |              |
|                                                                                                                                                   |          | OELV - 15 min (STEL)          | 300 ppm<br>900 mg/m3   | IE OEL       |
| n-butyl acetate                                                                                                                                   | 123-86-4 | OELV - 8 hrs (TWA)            | 50 ppm<br>241 mg/m3    | IE OEL       |
|                                                                                                                                                   |          | OELV - 15 min (STEL)          | 150 ppm<br>723 mg/m3   | IE OEL       |
|                                                                                                                                                   |          | STEL                          | 150 ppm<br>723 mg/m3   | 2019/1831/EU |
| Further information: Indicative                                                                                                                   |          |                               |                        |              |
|                                                                                                                                                   |          | TWA                           | 50 ppm                 | 2019/1831/EU |

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|                                                                                                                                                                              |              |                                                      |                                                           |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------|-----------------------------------------------------------|------------|
| 2-methoxy-1-methylethyl acetate                                                                                                                                              | 108-65-6     | STEL                                                 | 241 mg/m <sup>3</sup><br>100 ppm<br>550 mg/m <sup>3</sup> | 2000/39/EC |
| Further information: Identifies the possibility of significant uptake through the skin, Indicative                                                                           |              |                                                      |                                                           |            |
|                                                                                                                                                                              |              | TWA                                                  | 50 ppm<br>275 mg/m <sup>3</sup>                           | 2000/39/EC |
|                                                                                                                                                                              |              | OELV - 8 hrs (TWA)                                   | 50 ppm<br>275 mg/m <sup>3</sup>                           | IE OEL     |
| Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body                            |              |                                                      |                                                           |            |
|                                                                                                                                                                              |              | OELV - 15 min (STEL)                                 | 100 ppm<br>550 mg/m <sup>3</sup>                          | IE OEL     |
| reaction mass of ethylbenzene and xylene                                                                                                                                     | Not Assigned | OELV - 8 hrs (TWA)                                   | 50 ppm<br>221 mg/m <sup>3</sup>                           | IE OEL     |
| Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body                            |              |                                                      |                                                           |            |
|                                                                                                                                                                              |              | OELV - 15 min (STEL)                                 | 100 ppm<br>442 mg/m <sup>3</sup>                          | IE OEL     |
|                                                                                                                                                                              |              | TWA                                                  | 50 ppm<br>221 mg/m <sup>3</sup>                           | 2000/39/EC |
| Further information: Identifies the possibility of significant uptake through the skin, Indicative                                                                           |              |                                                      |                                                           |            |
|                                                                                                                                                                              |              | STEL                                                 | 100 ppm<br>442 mg/m <sup>3</sup>                          | 2000/39/EC |
| hexamethylene-di-isocyanate                                                                                                                                                  | 822-06-0     | OELV - 8 hrs (TWA)                                   | 0,005 ppm (NCO)                                           | IE OEL     |
| Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis |              |                                                      |                                                           |            |
| m-tolylidene diisocyanate                                                                                                                                                    | 26471-62-5   | OELV - 8 hrs (TWA) (Inhalable fraction and vapour)   | 0,001 ppm (NCO)                                           | IE OEL     |
| Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis |              |                                                      |                                                           |            |
|                                                                                                                                                                              |              | OELV - 15 min (STEL) (Inhalable fraction and vapour) | 0,003 ppm (NCO)                                           | IE OEL     |
|                                                                                                                                                                              |              | TWA                                                  | 0,01 mg/m <sup>3</sup> (NCO)                              | 98/24/EC I |
| Further information: Skin, Dermal and respiratory sensitisation, Binding                                                                                                     |              |                                                      |                                                           |            |
|                                                                                                                                                                              |              | STEL                                                 | 0,02 mg/m <sup>3</sup> (NCO)                              | 98/24/EC I |

\*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name      | End Use | Exposure routes | Potential health effects | Value                 |
|---------------------|---------|-----------------|--------------------------|-----------------------|
| Reaction product of | Workers | Inhalation      | Long-term systemic       | 1,7 mg/m <sup>3</sup> |

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|---------------------------------------------------------------------------|-----------|------------|----------------------------|-----------|
| Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane |           |            | effects                    |           |
|                                                                           | Workers   | Dermal     | Long-term systemic effects | 4,7 mg/kg |
|                                                                           | Consumers | Inhalation | Long-term systemic effects | 0,3 mg/m3 |
|                                                                           | Consumers | Dermal     | Long-term systemic effects | 1,7 mg/kg |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name                                                                                | Environmental Compartment | Value       |
|-----------------------------------------------------------------------------------------------|---------------------------|-------------|
| Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane | Fresh water               | 0,1 mg/l    |
|                                                                                               | Intermittent use/release  | 1 mg/l      |
|                                                                                               | Marine water              | 0,01 mg/l   |
|                                                                                               | Intermittent use/release  | 1 mg/l      |
|                                                                                               | Fresh water sediment      | 23,28 mg/kg |
|                                                                                               | Marine sediment           | 2,33 mg/kg  |
|                                                                                               | Sewage treatment plant    | 100 mg/l    |
|                                                                                               | Soil                      | 4,58 mg/kg  |

## 8.2 Exposure controls

### Appropriate engineering controls

Maintain air concentrations below occupational exposure standards.

Ensure adequate ventilation, especially in confined areas.

### Individual protection measures, such as personal protective equipment (PPE)

- Eye/face protection : Safety glasses with side-shields conforming to EN166
- Hand protection : Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.  
Suitable for short time use or protection against splashes:  
Butyl rubber/nitrile rubber gloves (> 0,1 mm)  
Contaminated gloves should be removed.  
Suitable for permanent exposure:  
Viton gloves (0.4 mm),  
breakthrough time >30 min.
- Skin and body protection : Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionally recommended for mixing and stirring work.  
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
- Respiratory protection : In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.  
organic vapor filter (Type A)

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A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm  
Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Methods for determining inhalation exposure). This applies in particular to the mixing / stirring area. In case this is not sufficient to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.

### Environmental exposure controls

General advice : Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid  
Colour : colourless  
Odour : ester-like  
  
Melting point/ range / Freezing point : No data available  
  
Boiling point/boiling range : 77 °C  
  
Flammability (solid, gas) : No data available

#### Upper/lower flammability or explosive limits

Upper explosion limit / Upper flammability limit : Upper flammability limit  
per flammability limit 12 %(V)  
  
Lower explosion limit / Lower flammability limit : Lower flammability limit  
2 %(V)  
  
Flash point : -8 °C  
Method: closed cup  
  
Auto-ignition temperature : 333 °C  
  
Decomposition temperature : No data available  
  
pH : Not applicable  
substance/mixture is non-soluble (in water)

#### Viscosity

Viscosity, kinematic : > 7 mm<sup>2</sup>/s (40 °C)

#### Solubility(ies)

Water solubility : insoluble

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|                                        |   |                                 |
|----------------------------------------|---|---------------------------------|
| Partition coefficient: n-octanol/water | : | No data available               |
| Vapour pressure                        | : | ca. 60 hPa                      |
| Density                                | : | ca. 1 g/cm <sup>3</sup> (20 °C) |
| Relative vapour density                | : | No data available               |
| Particle characteristics               | : | No data available               |

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.  
Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

:  
No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

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

#### Acute toxicity

Not classified due to lack of data.

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### Components:

#### **ethyl acetate:**

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): ca. 1.600 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

#### **butanone:**

Acute oral toxicity : LD50 Oral (Rat): 3.300 mg/kg

Acute inhalation toxicity : LC50 (Rat): 36 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

#### **Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane:**

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 423

Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402

#### **n-butyl acetate:**

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 23,4 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

#### **2-methoxy-1-methylethyl acetate:**

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

#### **reaction mass of ethylbenzene and xylene:**

Acute oral toxicity : LD50 Oral (Rat): 3.523 mg/kg

#### **hexamethylene-di-isocyanate:**

Acute oral toxicity : LD50 Oral (Rat): 746 mg/kg

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Acute toxicity estimate: 746 mg/kg  
Method: Calculation method

Acute inhalation toxicity : LC50 (Rat): 0,124 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute toxicity estimate: 0,124 mg/l  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : LD50 Dermal (Rat): > 7.000 mg/kg

### **m-tolylidene diisocyanate:**

Acute inhalation toxicity : LC50 (Rat): 0,107 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute toxicity estimate: 0,107 mg/l  
Test atmosphere: vapour  
Method: Calculation method

### **Skin corrosion/irritation**

Repeated exposure may cause skin dryness or cracking.

### **Components:**

#### **n-butyl acetate:**

Result : Repeated exposure may cause skin dryness or cracking.

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified due to lack of data.

#### **Germ cell mutagenicity**

Not classified due to lack of data.

#### **Carcinogenicity**

Not classified due to lack of data.

#### **Reproductive toxicity**

Not classified due to lack of data.

#### **STOT - single exposure**

May cause drowsiness or dizziness.

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### STOT - repeated exposure

Not classified due to lack of data.

### Aspiration hazard

Not classified due to lack of data.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

---

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### **Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane:**

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

#### **n-butyl acetate:**

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 647,7 mg/l  
Exposure time: 72 h

#### **Aromatic Polyisocyanate-Prepolymer:**

Toxicity to microorganisms : EC50 (Natural microorganism): > 10.000 mg/l  
Method: OECD Test Guideline 209  
Remarks: Information taken from reference works and the literature.

#### **reaction mass of ethylbenzene and xylene:**

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Toxicity to fish (Chronic toxicity) : NOEC: > 1,3 mg/l  
Exposure time: 56 d  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,17 mg/l  
Exposure time: 7 d  
Species: Daphnia (water flea)

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : 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..

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

#### Product:

Additional ecological information : There is no data available for this product.

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The generation of waste should be avoided or minimized wherever possible.  
Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way.  
Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

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Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.  
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

European Waste Catalogue : 08 01 11\* waste paint and varnish containing organic solvents or other dangerous substances

Contaminated packaging : 15 01 10\* packaging containing residues of or contaminated by dangerous substances

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR : UN 1866

IMDG : UN 1866

IATA : UN 1866

#### 14.2 UN proper shipping name

ADR : RESIN SOLUTION

IMDG : RESIN SOLUTION

IATA : Resin solution

#### 14.3 Transport hazard class(es)

|      | Class | Subsidiary risks |
|------|-------|------------------|
| ADR  | : 3   |                  |
| IMDG | : 3   |                  |
| IATA | : 3   |                  |

#### 14.4 Packing group

**ADR**

Packing group : II

Classification Code : F1

Hazard Identification Number : 33

Labels : 3

Tunnel restriction code : (D/E)

**IMDG**

Packing group : II

Labels : 3

EmS Code : F-E, S-E

**IATA (Cargo)**

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Packing instruction (cargo aircraft) : 364  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

### IATA (Passenger)

Packing instruction (passenger aircraft) : 353  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

## 14.5 Environmental hazards

### ADR

Environmentally hazardous : no

### IMDG

Marine pollutant : no

### IATA (Passenger)

Environmentally hazardous : no

### IATA (Cargo)

Environmentally hazardous : no

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

International Chemical Weapons Convention (CWC) : Not applicable  
Schedules of Toxic Chemicals and Precursors

REACH Information: All substances contained in our Products are  
- registered by our upstream suppliers, and/or  
- registered by us, and/or  
- excluded from the regulation, and/or  
- exempted from the registration.

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 3

Number on list 40

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This substance/mixture shall not be used in aerosol dispensers intended for supply to the general public for entertainment and decorative purposes.

Number on list 75

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : None of the components are listed (=> 0.1 %).

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P5c FLAMMABLE LIQUIDS

Volatile organic compounds : Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC)  
Volatile organic compounds (VOC) content: 65,99% w/w

Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 65,99% w/w

If other regulatory information applies that is not already provided elsewhere in the Safety Data Sheet, then it is described in this subsection.

Health, safety and environmental regulation/legislation specific for the substance or mixture: : Environmental Protection Act 1990 & Subsidiary Regulations  
Health and Safety at Work Act 1974 & Subsidiary Regulations  
Control of Substances Hazardous to Health Regulations (COSHH)  
May be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments.

### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations,

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where applicable.

### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

## SECTION 16: Other information

### Full text of H-Statements

|      |                                                                                 |
|------|---------------------------------------------------------------------------------|
| H225 | : Highly flammable liquid and vapour.                                           |
| H226 | : Flammable liquid and vapour.                                                  |
| H302 | : Harmful if swallowed.                                                         |
| 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.                                                |
| H330 | : Fatal if inhaled.                                                             |
| 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.                                                  |
| H373 | : May cause damage to organs through prolonged or repeated exposure if inhaled. |
| H412 | : Harmful to aquatic life with long lasting effects.                            |

### Full text of other abbreviations

|                 |                                                                                                                           |
|-----------------|---------------------------------------------------------------------------------------------------------------------------|
| Acute Tox.      | : Acute toxicity                                                                                                          |
| Aquatic Chronic | : Long-term (chronic) aquatic hazard                                                                                      |
| Asp. Tox.       | : Aspiration hazard                                                                                                       |
| Carc.           | : Carcinogenicity                                                                                                         |
| Eye Irrit.      | : Eye irritation                                                                                                          |
| Flam. Liq.      | : Flammable liquids                                                                                                       |
| Resp. Sens.     | : Respiratory sensitisation                                                                                               |
| Skin Irrit.     | : Skin irritation                                                                                                         |
| Skin Sens.      | : Skin sensitisation                                                                                                      |
| STOT RE         | : Specific target organ toxicity - repeated exposure                                                                      |
| STOT SE         | : Specific target organ toxicity - single exposure                                                                        |
| 2000/39/EC      | : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values      |
| 2017/164/EU     | : Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values    |
| 2019/1831/EU    | : Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values    |
| 98/24/EC I      | : Europe. Chemical Agents Directive - Annex I: Binding occupational exposure limit values                                 |
| IE OEL          | : Ireland. List of Chemical Agents and Carcinogens with Occupational Exposure Limit Values - Code of Practice, Schedule 1 |

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|                               |                                                                                                                                                                                                                                        |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | and 2                                                                                                                                                                                                                                  |
| 2000/39/EC / TWA              | : Limit Value - eight hours                                                                                                                                                                                                            |
| 2000/39/EC / STEL             | : Short term exposure limit                                                                                                                                                                                                            |
| 2017/164/EU / STEL            | : Short term exposure limit                                                                                                                                                                                                            |
| 2017/164/EU / TWA             | : Limit Value - eight hours                                                                                                                                                                                                            |
| 2019/1831/EU / TWA            | : Limit Value - eight hours                                                                                                                                                                                                            |
| 2019/1831/EU / STEL           | : Short term exposure limit                                                                                                                                                                                                            |
| 98/24/EC I / STEL             | : Limit values Short-term                                                                                                                                                                                                              |
| 98/24/EC I / TWA              | : Limit values 8 hours                                                                                                                                                                                                                 |
| IE OEL / OELV - 8 hrs (TWA)   | : Occupational exposure limit value (8-hour reference period)                                                                                                                                                                          |
| IE OEL / OELV - 15 min (STEL) | : Occupational exposure limit value (15-minute reference period)                                                                                                                                                                       |
| ADR                           | : European Agreement concerning the International Carriage of Dangerous Goods by Road                                                                                                                                                  |
| CAS                           | : Chemical Abstracts Service                                                                                                                                                                                                           |
| DNEL                          | : Derived no-effect level                                                                                                                                                                                                              |
| EC50                          | : Half maximal effective concentration                                                                                                                                                                                                 |
| GHS                           | : Globally Harmonized System                                                                                                                                                                                                           |
| IATA                          | : International Air Transport Association                                                                                                                                                                                              |
| IMDG                          | : International Maritime Code for Dangerous Goods                                                                                                                                                                                      |
| LD50                          | : Median lethal dose (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)                                                                                                |
| LC50                          | : Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)                                                                                                 |
| MARPOL                        | : International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978                                                                                                                        |
| OEL                           | : Occupational Exposure Limit                                                                                                                                                                                                          |
| PBT                           | : Persistent, bioaccumulative and toxic                                                                                                                                                                                                |
| PNEC                          | : Predicted no effect concentration                                                                                                                                                                                                    |
| REACH                         | : Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency |
| SVHC                          | : Substances of Very High Concern                                                                                                                                                                                                      |
| vPvB                          | : Very persistent and very bioaccumulative                                                                                                                                                                                             |

### Further information

#### Classification of the mixture:

|              |      |
|--------------|------|
| Flam. Liq. 2 | H225 |
| Eye Irrit. 2 | H319 |
| Skin Sens. 1 | H317 |
| STOT SE 3    | H336 |

#### Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |

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The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.



Changes as compared to previous version !

IE / EN