



CONMARBLE  
NATURAL FINISHES



SAFETY DATA SHEET  
**PU ADDASTONE**  
*Safety data sheet — Component B*

A CONMARBLE NATURAL FINISHES SYSTEM · RESIN-BOUND & RESIN-BONDED SURFACING

MANUFACTURED BY



Addagrip Terraco Ltd · United Kingdom

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JULY 2026

## 67505 - PU Addastone Part B

Date of compilation: 13/03/2024

Version: 1

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** 67505 - PU Addastone Part B  
4,4'-methylenediphenyl diisocyanate, isomers and homologues  
CAS: 9016-87-9  
**Other means of identification:**  
Non-applicable
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Resins for making decorative coatings. For professional users only.  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**  
Addagrip Terraco Ltd  
Addagrip House, Bell Lane Industrial Estate  
TN22 1QL Uckfield - East Sussex - United Kingdom  
Phone: +44 1825 761 333  
admin@addagrip.co.uk  
www.addagrip.co.uk
- 1.4 Emergency telephone number:** Call NHS 111 or a doctor if you feel unwell

### SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**  
**GB CLP Regulation:**  
Classification of this product has been carried out in accordance with GB CLP Regulation.  
Acute Tox. 4: Acute inhalation toxicity, Category 4, H332  
Carc. 2: Carcinogenicity, Category 2, H351  
Eye Irrit. 2: Eye irritation, Category 2, H319  
Resp. Sens. 1: Sensitisation, respiratory, Category 1, H334  
Skin Irrit. 2: Skin irritation, Category 2, H315  
Skin Sens. 1: Sensitisation, skin, Category 1, H317  
STOT RE 2: Specific target organ toxicity, repeated exposure, Category 2, H373  
STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335
- 2.2 Label elements:**  
**GB CLP Regulation:**  
Danger
- 

- Hazard statements:**  
Acute Tox. 4: H332 - Harmful if inhaled.  
Carc. 2: H351 - Suspected of causing cancer.  
Eye Irrit. 2: H319 - Causes serious eye irritation.  
Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Skin Irrit. 2: H315 - Causes skin irritation.  
Skin Sens. 1: H317 - May cause an allergic skin reaction.  
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.  
STOT SE 3: H335 - May cause respiratory irritation.
- Precautionary statements:**  
P280: Wear protective gloves/eye protection.  
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position 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.  
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
P501: Dispose of the contents and/or its container in line with regulations on dangerous waste or packaging and waste packaging respectively.

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## SECTION 2: HAZARDS IDENTIFICATION (continued)

### Supplementary information:

Contains 4,4'-methylenediphenyl diisocyanate, isomers and homologues.

### Additional Labelling:

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

### 2.3 Other hazards:

Product does not meet PBT/vPvB criteria

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance:

**Chemical description:** Isocyanate resin

### Components:

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

| Identification | Chemical name/Classification                                                                                                                                                                                                         | Concentration |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| CAS: 9016-87-9 | <b>4,4'-methylenediphenyl diisocyanate, isomers and homologues</b><br>Acute Tox. 4: H332; Carc. 2: H351; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT RE 2: H373; STOT SE 3: H335 - Danger | <b>100 %</b>  |

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

### 3.2 Mixture:

Non-applicable

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

| Identification                                                                | Acute toxicity  |                | Genus |
|-------------------------------------------------------------------------------|-----------------|----------------|-------|
| 4,4'-methylenediphenyl diisocyanate, isomers and homologues<br>CAS: 9016-87-9 | LD50 oral       | Non-applicable |       |
|                                                                               | LD50 dermal     | Non-applicable |       |
|                                                                               | LC50 inhalation | 11 mg/L (ATEi) |       |

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

#### By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

#### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

#### By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

#### By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

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#### SECTION 4: FIRST AID MEASURES (continued)

Non-applicable

#### SECTION 5: FIREFIGHTING MEASURES

##### 5.1 Extinguishing media:

###### Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

###### Unsuitable extinguishing media:

Non-applicable

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

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

##### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...).

###### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

###### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

###### For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

##### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

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

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

##### 6.4 Reference to other sections:

See sections 8 and 13.

#### SECTION 7: HANDLING AND STORAGE

##### 7.1 Precautions for safe handling:

###### A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

###### B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

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## SECTION 7: HANDLING AND STORAGE (continued)

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

Maximum time: 3 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

### 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

BIOLOGICAL MONITORING GUIDANCE VALUES (BMGVs) - EH40/2005 - Isocyanates (applies to HDI, IPDI, TDI and MDI): 1 µmol isocyanate-derived diamine/mol creatinine in urine. Sampling Time: At the end of the period of exposure.

#### DNEL (Workers):

| Identification                                                                                 |            | Short exposure |                       | Long exposure  |                        |
|------------------------------------------------------------------------------------------------|------------|----------------|-----------------------|----------------|------------------------|
|                                                                                                |            | Systemic       | Local                 | Systemic       | Local                  |
| 4,4'-methylenediphenyl diisocyanate, isomers and homologues<br>CAS: 9016-87-9<br>EC: 618-498-9 | Oral       | Non-applicable | Non-applicable        | Non-applicable | Non-applicable         |
|                                                                                                | Dermal     | Non-applicable | Non-applicable        | Non-applicable | Non-applicable         |
|                                                                                                | Inhalation | Non-applicable | 0.1 mg/m <sup>3</sup> | Non-applicable | 0.05 mg/m <sup>3</sup> |

#### DNEL (General population):

| Identification                                                                                 |            | Short exposure |                        | Long exposure  |                         |
|------------------------------------------------------------------------------------------------|------------|----------------|------------------------|----------------|-------------------------|
|                                                                                                |            | Systemic       | Local                  | Systemic       | Local                   |
| 4,4'-methylenediphenyl diisocyanate, isomers and homologues<br>CAS: 9016-87-9<br>EC: 618-498-9 | Oral       | Non-applicable | Non-applicable         | Non-applicable | Non-applicable          |
|                                                                                                | Dermal     | Non-applicable | Non-applicable         | Non-applicable | Non-applicable          |
|                                                                                                | Inhalation | Non-applicable | 0.05 mg/m <sup>3</sup> | Non-applicable | 0.025 mg/m <sup>3</sup> |

#### PNEC:

| Identification                                                                                 |              |                |        |                         |                |
|------------------------------------------------------------------------------------------------|--------------|----------------|--------|-------------------------|----------------|
|                                                                                                |              | STP            | 1 mg/L | Fresh water             | 1 mg/L         |
| 4,4'-methylenediphenyl diisocyanate, isomers and homologues<br>CAS: 9016-87-9<br>EC: 618-498-9 | Soil         | 1 mg/kg        |        | Marine water            | 0.1 mg/L       |
|                                                                                                | Intermittent | 10 mg/L        |        | Sediment (Fresh water)  | Non-applicable |
|                                                                                                | Oral         | Non-applicable |        | Sediment (Marine water) | Non-applicable |
|                                                                                                |              |                |        |                         |                |

### 8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

In accordance with the order of importance to control professional exposure it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have <<UKCA marking>> or <<CE marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Pictogram                                                                                                                   | PPE                               | Remarks                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Mandatory respiratory tract protection | Filter mask for gases and vapours | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |

### C.- Specific protection for the hands

| Pictogram                                                                                                      | PPE                                       | Remarks                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Mandatory hand protection | NON-disposable chemical protective gloves | The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. |

### D.- Eye and face protection

| Pictogram                                                                                                      | PPE         | Remarks                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------|
| <br>Mandatory face protection | Face shield | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

### E.- Body protection

| Pictogram                                                                                                                 | PPE                                                       | Remarks                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <br>Mandatory complete body protection | Disposable clothing for protection against chemical risks | For professional use only. Clean periodically according to the manufacturer's instructions. |
| <br>Mandatory foot protection          | Safety footwear for protection against chemical risk      | Replace boots at any sign of deterioration.                                                 |

### F.- Additional emergency measures

| Emergency measure                                                                                       | Standards                                       | Emergency measure                                                                                        | Standards                                      |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <br>Emergency shower | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 | <br>Eyewash stations | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |

### Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

### The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2012:

V.O.C. (Supply): 0 % weight  
V.O.C. density at 20 °C: 0 kg/m<sup>3</sup> (0 g/L)

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

For complete information see the product datasheet.

#### Appearance:

Physical state at 20 °C: Liquid  
Appearance: Viscous

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

|                                              |                          |
|----------------------------------------------|--------------------------|
| Colour:                                      | Brown                    |
| Odour:                                       | Not available            |
| Odour threshold:                             | Non-applicable *         |
| <b>Volatility:</b>                           |                          |
| Boiling point at atmospheric pressure:       | Non-applicable *         |
| Vapour pressure at 20 °C:                    | Non-applicable *         |
| Vapour pressure at 50 °C:                    | <300000 Pa (300 kPa)     |
| Evaporation rate at 20 °C:                   | Non-applicable *         |
| <b>Product description:</b>                  |                          |
| Density at 20 °C:                            | Non-applicable *         |
| Relative density at 20 °C:                   | 1.24                     |
| Dynamic viscosity at 20 °C:                  | Non-applicable *         |
| Kinematic viscosity at 20 °C:                | Non-applicable *         |
| Kinematic viscosity at 40 °C:                | >20.5 mm <sup>2</sup> /s |
| Concentration:                               | Non-applicable *         |
| pH:                                          | Non-applicable *         |
| Vapour density at 20 °C:                     | Non-applicable *         |
| Partition coefficient n-octanol/water 20 °C: | Non-applicable *         |
| Solubility in water at 20 °C:                | Non-applicable *         |
| Solubility properties:                       | Non-applicable *         |
| Decomposition temperature:                   | Non-applicable *         |
| Melting point/freezing point:                | 10 °C                    |
| <b>Flammability:</b>                         |                          |
| Flash Point:                                 | Non Flammable (>60 °C)   |
| Flammability (solid, gas):                   | Non-applicable *         |
| Autoignition temperature:                    | Non-applicable *         |
| Lower flammability limit:                    | Non-applicable *         |
| Upper flammability limit:                    | Non-applicable *         |
| <b>Particle characteristics:</b>             |                          |
| Median equivalent diameter:                  | Non-applicable           |

### 9.2 Other information:

#### Information with regard to physical hazard classes:

|                                                              |                  |
|--------------------------------------------------------------|------------------|
| Explosive properties:                                        | Non-applicable * |
| Oxidising properties:                                        | Non-applicable * |
| Corrosive to metals:                                         | Non-applicable * |
| Heat of combustion:                                          | Non-applicable * |
| Aerosols-total percentage (by mass) of flammable components: | Non-applicable * |

#### Other safety characteristics:

|                           |                  |
|---------------------------|------------------|
| Surface tension at 20 °C: | Non-applicable * |
| Refraction index:         | Non-applicable * |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity:

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## SECTION 10: STABILITY AND REACTIVITY (continued)

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

### 10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight       | Humidity       |
|--------------------|------------------|-------------------------|----------------|----------------|
| Not applicable     | Not applicable   | Not applicable          | Not applicable | Not applicable |

### 10.5 Incompatible materials:

| Acids              | Water          | Oxidising materials | Combustible materials | Others                        |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Not applicable      | Not applicable        | Avoid alkalis or strong bases |

### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

#### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

#### A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

#### B- Inhalation (acute effect):

- Acute toxicity : Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

#### C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces eye damage after contact.

#### D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2.
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

#### E- Sensitizing effects:

- Respiratory: Prolonged exposure can result in specific respiratory hypersensitivity.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

#### F- Specific target organ toxicity (STOT) - single exposure:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

#### G- Specific target organ toxicity (STOT)-repeated exposure:

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## SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**Other information:**

Non-applicable

**Specific toxicology information on the substances:**

| Identification                                                                | Acute toxicity  |                | Genus |
|-------------------------------------------------------------------------------|-----------------|----------------|-------|
| 4,4'-methylenediphenyl diisocyanate, isomers and homologues<br>CAS: 9016-87-9 | LD50 oral       | Non-applicable |       |
|                                                                               | LD50 dermal     | Non-applicable |       |
|                                                                               | LC50 inhalation | 11 mg/L (ATEi) |       |

## SECTION 12: ECOLOGICAL INFORMATION

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

### 12.1 Toxicity:

Not available

### 12.2 Persistence and degradability:

Not available

### 12.3 Bioaccumulative potential:

Not available

### 12.4 Mobility in soil:

Not available

### 12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

### 12.6 Other adverse effects:

Not described

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

| Code      | Description       | Waste class |
|-----------|-------------------|-------------|
| 08 05 01* | waste isocyanates | Hazardous   |

**Type of waste:**

HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity, HP7 Carcinogenic, HP13 Sensitising, HP4 Irritant — skin irritation and eye damage

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste (England & Wales) Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

**Regulations related to waste management:**

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste (England & Wales) Regulations 2011.

## SECTION 14: TRANSPORT INFORMATION

### Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

|                                                                                 |                |
|---------------------------------------------------------------------------------|----------------|
| <b>14.1 UN number:</b>                                                          | Non-applicable |
| <b>14.2 UN proper shipping name:</b>                                            | Non-applicable |
| <b>14.3 Transport hazard class(es):</b>                                         | Non-applicable |
| Labels:                                                                         | Non-applicable |
| <b>14.4 Packing group:</b>                                                      | Non-applicable |
| <b>14.5 Environmental hazards:</b>                                              | No             |
| <b>14.6 Special precautions for user</b>                                        |                |
| Tunnel restriction code:                                                        | Non-applicable |
| Physico-Chemical properties:                                                    | see section 9  |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b> | Non-applicable |

### Transport of dangerous goods by sea:

With regard to IMDG 40-20:

|                                                                                 |                |
|---------------------------------------------------------------------------------|----------------|
| <b>14.1 UN number:</b>                                                          | Non-applicable |
| <b>14.2 UN proper shipping name:</b>                                            | Non-applicable |
| <b>14.3 Transport hazard class(es):</b>                                         | Non-applicable |
| Labels:                                                                         | Non-applicable |
| <b>14.4 Packing group:</b>                                                      | Non-applicable |
| <b>14.5 Marine pollutant:</b>                                                   | No             |
| <b>14.6 Special precautions for user</b>                                        |                |
| Special regulations:                                                            | Non-applicable |
| EmS Codes:                                                                      |                |
| Physico-Chemical properties:                                                    | see section 9  |
| Limited quantities:                                                             | Non-applicable |
| Segregation group:                                                              | Non-applicable |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b> | Non-applicable |

### Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:

|                                                                                 |                |
|---------------------------------------------------------------------------------|----------------|
| <b>14.1 UN number:</b>                                                          | Non-applicable |
| <b>14.2 UN proper shipping name:</b>                                            | Non-applicable |
| <b>14.3 Transport hazard class(es):</b>                                         | Non-applicable |
| Labels:                                                                         | Non-applicable |
| <b>14.4 Packing group:</b>                                                      | Non-applicable |
| <b>14.5 Environmental hazards:</b>                                              | No             |
| <b>14.6 Special precautions for user</b>                                        |                |
| Physico-Chemical properties:                                                    | see section 9  |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b> | Non-applicable |

## SECTION 15: REGULATORY INFORMATION

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable
- Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

#### The Control of Major Accident Hazards Regulations 2015:

Non-applicable

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH, etc ....):

## SECTION 15: REGULATORY INFORMATION (continued)

Contains more than 0.1 % of 4,4'-methylenediphenyl diisocyanate, isomers and homologues by weight. 1. Shall not be used as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 August 2023, unless:

(a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or (b) the employer or self-employed ensures that industrial or professional user(s) have successfully completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture(s).

2. Shall not be placed on the market as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 February 2022, unless:

(a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or (b) the supplier ensures that the recipient of the substance(s) or mixture(s) is provided with information on the requirements referred to in point (b) of paragraph 1 and the following statement is placed on the packaging, in a manner that is visibly distinct from the rest of the label information: "As from 24 August 2023 adequate training is required before industrial or professional use".

3. For the purpose of this entry "industrial and professional user(s)" means any worker or self-employed worker handling diisocyanates on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) or supervising these tasks.

4. The training referred to in point (b) of paragraph 1 shall include the instructions for the control of dermal and inhalation exposure to diisocyanates at the workplace without prejudice to any national occupational exposure limit value or other appropriate risk management measures at national level. Such training shall be conducted by an expert on occupational safety and health with competence acquired by relevant vocational training. That training shall cover as a minimum:

(a) the training elements in point (a) of paragraph 5 for all industrial and professional use(s).

(b) the training elements in points (a) and (b) of paragraph 5 for the following uses:

- handling open mixtures at ambient temperature (including foam tunnels)
- spraying in a ventilated booth
- application by roller
- application by brush
- application by dipping and pouring
- mechanical post treatment (e.g. cutting) of not fully cured articles which are not warm anymore
- cleaning and waste
- any other uses with similar exposure through the dermal and/or inhalation route
- (c) the training elements in points (a), (b) and (c) of paragraph 5 for the following uses:
  - handling incompletely cured articles (e.g. freshly cured, still warm)
  - foundry applications
  - maintenance and repair that needs access to equipment
  - open handling of warm or hot formulations (> 45 °C)
  - spraying in open air, with limited or only natural ventilation (includes large industry working halls) and spraying with high energy (e.g. foams, elastomers)
  - and any other uses with similar exposure through the dermal and/or inhalation route.

5. Training elements:

(a) general training, including on-line training, on:

- chemistry of diisocyanates
- toxicity hazards (including acute toxicity)
- exposure to diisocyanates
- occupational exposure limit values
- how sensitisation can develop
- odour as indication of hazard
- importance of volatility for risk
- viscosity, temperature, and molecular weight of diisocyanates
- personal hygiene
- personal protective equipment needed, including practical instructions for its correct use and its limitations
- risk of dermal contact and inhalation exposure
- risk in relation to application process used
- skin and inhalation protection scheme
- ventilation
- cleaning, leakages, maintenance
- discarding empty packaging
- protection of bystanders
- identification of critical handling stages
- specific national code systems (if applicable)
- behaviour-based safety
- certification or documented proof that training has been successfully completed

(b) intermediate level training, including on-line training, on:

- additional behaviour-based aspects
- maintenance
- management of change

## SECTION 15: REGULATORY INFORMATION (continued)

- evaluation of existing safety instructions
  - risk in relation to application process used
  - certification or documented proof that training has been successfully completed
- (c) advanced training, including on-line training, on:
- any additional certification needed for the specific uses covered
  - spraying outside a spraying booth
  - open handling of hot or warm formulations (> 45 °C)
  - certification or documented proof that training has been successfully completed
6. The training shall comply with the provisions set by the Member State in which the industrial or professional user(s) operate. Member States may implement or continue to apply their own national requirements for the use of the substance(s) or mixture(s), as long as the minimum requirements set out in paragraphs 4 and 5 are met.
7. The supplier referred to in point (b) of paragraph 2 shall ensure that the recipient is provided with training material and courses pursuant to paragraphs 4 and 5 in the official language(s) of the Member State(s) where the substance(s) or mixture(s) are supplied. The training shall take into consideration the specificity of the products supplied, including composition, packaging, and design.
8. The employer or self-employed shall document the successful completion of the training referred to in paragraphs 4 and 5. The training shall be renewed at least every five years.
9. Member States shall include in their reports pursuant to Article 117(1) the following information:
- (a) any established training requirements and other risk management measures related to the industrial and professional uses of diisocyanates foreseen in national law
  - (b) the number of cases of reported and recognised occupational asthma and occupational respiratory and dermal diseases in relation to diisocyanates
  - (c) national exposure limits for diisocyanates, if there are any
  - (d) information about enforcement activities related to this restriction.
10. This restriction shall apply without prejudice to other Union legislation on the protection of safety and health of workers at the workplace.
- Shall not be used in:
- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
  - tricks and jokes,
  - games for one or more participants, or any article intended to be used as such, even with ornamental aspects.
- Contains more than 0.1 % of 4,4'-methylenediphenyl diisocyanate, isomers and homologues by weight. This product may not be distributed in its present form for first-time sale to the general public after 27th December 2010 unless the packaging contains protective gloves meeting the provisions of Regulation (EU) 2016/425.
- Specific provisions in terms of protecting people or the environment:**
- It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.
- Other legislation:**
- The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.  
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.  
Control of Substances Hazardous to Health Regulations 2002 (as amended)  
EH40/2005 Workplace exposure limits.

## SECTION 16: OTHER INFORMATION

### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

### Texts of the legislative phrases mentioned in section 2:

H332: Harmful if inhaled.

H315: Causes skin irritation.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317: May cause an allergic skin reaction.

H351: Suspected of causing cancer.

H335: May cause respiratory irritation.

H373: May cause damage to organs through prolonged or repeated exposure.

H319: Causes serious eye irritation.

### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

**SECTION 16: OTHER INFORMATION (continued)****GB CLP Regulation:**

Acute Tox. 4: H332 - Harmful if inhaled.

Carc. 2: H351 - Suspected of causing cancer.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.

STOT SE 3: H335 - May cause respiratory irritation.

**Advice related to training:**

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

**Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient

Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer