# Safety Data Sheet according to Regulation (EC) 'No. 2020/878

Construction Products Group Europe

## SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

**1.1 Product Identifier**

**Product Name:** Deckshield DPM Part B

**Revision Date:** 26/01/2023

**Supersedes Date:** 17/05/2021

**UFI Code:** YKW1-60CH-H003-WXN8

**Nanoform:** No

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

Component of multicomponent coatings - Professional use only. Coatings and paints, thinners, paint removers. Manual activities involving hand contact. Widespread use leading to inclusion into/onto article (indoor). Widespread use leading to inclusion into/onto article (outdoor). For use by appropriately trained applicators. Roller application or brushing. Advised against: Home DIY applications. Advised against: Spray application, because of the additional hazards. Advised against: others than recommended

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

**Manufacturer:**

Tremco CPG Poland Sp. z o. o.
Ul. Marywilska 34
03-228 Warszawa
Polska

Tel: +48 22 879 8907
Fax: +48 22 879 8918
ehs.uk@flowcrete.com
www.flowcrete.com.pl/

**Datasheet Produced by:** ehs.uk@flowcrete.com

**1.4 Emergency telephone number:** CHEMTREC +1 703 5273887 (Outside US)

## SECTION 2: Hazards Identification

**2.1 Classification of the substance or mixture**

**Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008**

**HAZARD STATEMENTS**

| | |
|---|---|
| Other EU extensions | EUH204 |
| Skin Irritation, category 2 | H315 |
| Skin Sensitizer, category 1 | H317 |
| Eye Irritation, category 2 | H319 |
| Acute Toxicity, Inhalation, category 4 | H332 |
| Respiratory Sensitizer, category 1 | H334 |
| STOT, single exposure, category 3, RTI | H335 |
| Carcinogenicity, category 2 | H351 |
| STOT, repeated exposure, category 2 | H373 |

## 2.2 Label elements

**Symbol(s) of Product**

**Signal Word**

Danger

**Named Chemicals on Label**

4,4'-Methylenediphenyl diisocyanate, 2,2'-Methylenediphenyl diisocyanate, Diphenylmethane-2,4'-diisocyanate, Isocyanic acid, polymethylenepolyphenylene ester

**HAZARD STATEMENTS**

| | | |
|---|---|---|
| Other EU extensions | EUH204 | Contains isocyanates. May produce an allergic reaction. |
| Skin Irritation, category 2 | H315 | Causes skin irritation. |
| Skin Sensitizer, category 1 | H317 | May cause an allergic skin reaction. |
| Eye Irritation, category 2 | H319 | Causes serious eye irritation. |
| Acute Toxicity, Inhalation, category 4 | H332 | Harmful if inhaled. |
| Respiratory Sensitizer, category 1 | H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| STOT, single exposure, category 3, RTI | H335 | May cause respiratory irritation. |
| Carcinogenicity, category 2 | H351 | Suspected of causing cancer. |
| STOT, repeated exposure, category 2 | H373 | May cause damage to organs through prolonged or repeated exposure. |

**PRECAUTION PHRASES**

| | |
|---|---|
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/ face protection. |
| P302+352 | IF ON SKIN: Wash with plenty of soap and water. |
| P304+340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P305+351+338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. |
| P308+313 | IF exposed or concerned: Get medical advice/attention. |

## 2.3 Other hazards

Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

**Results of PBT and vPvB assessment:**

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

**Endocrine disrupting properties - Toxicity**

| Name According to EEC | CAS-No. |
|---|---|
| No Information | |

**Endocrine disrupting properties - Ecotoxicity**

| Name According to EEC | CAS-No. |
|---|---|
| No Information | |

## SECTION 3: Composition/Information On Ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

**Hazardous ingredients**

| Name According to EEC<br>EINEC No.<br>CAS-No.<br>REACH Reg No. | % | Classifications | SCL Value:<br>ATE Value:<br>M-Factor: | |
|---|---|---|---|---|
| Isocyanic acid, polymethylenepolyphenylene ester<br>- (Polymer)<br>9016-87-9<br>Not required | 50 - <75 | H315-317-319-332-334-335-351-373<br>Acute Tox. 4 Inhalation, Carc. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Irrit. 2, Skin Sens. 1, STOT RE 2, STOT SE 3 RTI | SCL Value:<br>ATE Value:<br>M-Factor: | -<br>-<br>- |
| Diphenylmethane-2,4'-diisocyanate<br>227-534-9<br>5873-54-1<br>01-2119480143-45 | 10 - <25 | H315-317-319-332-334-335-351-373<br>Acute Tox. 4 Inhalation, Carc. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Irrit. 2, Skin Sens. 1, STOT RE 2, STOT SE 3 RTI | SCL Value:<br>ATE Value:<br>M-Factor: | -<br>-<br>- |
| 4,4'-Methylenediphenyl diisocyanate<br>202-966-0<br>101-68-8<br>01-2119457014-47 | 10 - <25 | H315-317-319-332-334-335-351-373<br>Acute Tox. 4 Inhalation, Carc. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Irrit. 2, Skin Sens. 1, STOT RE 2, STOT SE 3 RTI | SCL Value:<br>ATE Value:<br>M-Factor: | -<br>-<br>- |

| | | | | |
|---|---|---|---|---|
| 2,2'-Methylenediphenyl diisocyanate<br>219-799-4<br>2536-05-2<br>01-2119927323-43 | 0.1 - <1.0 | H315-317-319-332-334-335-351-373<br><br>Acute Tox. 4 Inhalation, Carc. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Irrit. 2, Skin Sens. 1, STOT RE 2, STOT SE 3 RTI | **SCL Value:**<br>**ATE Value:**<br>**M-Factor:** | -<br>-<br>- |

**Additional Information:** The text for CLP Hazard Statements shown above (if any) is given in Section 16.

## SECTION 4: First-aid Measures

### 4.1 Description of First Aid Measures

**GENERAL NOTES:** When symptoms persist or in all cases of doubt seek medical advice. Show this safety data sheet to the doctor in attendance.
**AFTER INHALATION:** Remove person to fresh air. If signs/symptoms continue, get medical attention.
**AFTER SKIN CONTACT:** Use a mild soap if available. Do not use solvent or thinners to clean skin. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
**AFTER EYE CONTACT:** Consult a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.
**AFTER INGESTION:** Gently wipe or rinse the inside of the mouth with water. Never give anything by mouth to an unconscious person. Obtain medical attention. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.

**Self protection of the first aider:**

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

May cause damage to organs through prolonged or repeated exposure. Harmful by inhalation. Irritating to respiratory system. Limited evidence of a carcinogenic effect. Irritating to eyes and skin. May cause sensitization by inhalation and skin contact.

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## SECTION 5: Firefighting Measures

### 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam, Water Fog

**FOR SAFETY REASONS NOT TO BE USED:** Do not use a solid water stream as it may scatter and spread fire. Alcohol, Alcohol based solutions, any other media not listed above.

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

Carbon monoxide, carbon dioxide, nitrogen oxide, cyanides, isocyanate vapours.

### 5.3 Advice for firefighters

Use water spray to cool unopened containers. Fire will produce dense black smoke containing hazardous combustion products (see section 10). In the event of fire, wear self-contained breathing apparatus. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## SECTION 6: Accidental Release Measures

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

#### 6.1.1 For non-emergency personnel

Avoid contact with skin, eyes and clothing. For personal protection see section 8.2. Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak.

#### 6.1.2 For emergency responders

See Section 7, 8 and 10 for further information.

### 6.2 Environmental precautions

Discharge into the environment must be avoided. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

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

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Refer to protective measures listed in sections 7 and 8. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 6.4 Reference to other sections

**FURTHER INSTRUCTIONS:** Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 8 and 13 for further information.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Apply technical measures to comply with the occupational exposure limits (see section 8). People handling polyurethane products must have received special training according to guidelines from the National Occupational Health and Safety Board. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. In the case of sensitisation to any of the ingredients, it is inadvisable to work with the product. Handle in accordance with good industrial hygiene and safety practice. Keep working clothes separately. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

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

**CONDITIONS TO AVOID:** Avoid temperatures above 30 °C, direct sunlight and contact with sources of heat. Do not freeze.
**STORAGE CONDITIONS:** Keep out of the reach of children. Keep at temperatures between 10 and 30 °C. Store in original container. Keep container closed when not in use. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Keep away from food, drink and animal feeding stuffs.

### 7.3 Specific end use(s)

Component of multicomponent coatings. The mixing and application to be in accordance with the technical data sheets.

## SECTION 8: Exposure Controls/Personal Protection

### 8.1 Control parameters

**Ingredients with Occupational Exposure Limits**
**(UK WELS)**

| Name | CAS-No. | LTEL ppm | STEL ppm | STEL mg/m3 | LTEL mg/m3 |
|---|---|---|---|---|---|
| Isocyanic acid, polymethylenepolyphenylene ester | 9016-87-9 | | | 0.07 | 0.02 |
| Diphenylmethane-2,4'-diisocyanate | 5873-54-1 | | | 0.07 | 0.02 |
| 4,4'-Methylenediphenyl diisocyanate | 101-68-8 | | | 0.07 | 0.02 |
| 2,2'-Methylenediphenyl diisocyanate | 2536-05-2 | | | | |

| Name | CAS-No. | OEL Note |
|---|---|---|
| Isocyanic acid, polymethylenepolyphenylene ester | 9016-87-9 | |
| Diphenylmethane-2,4'-diisocyanate | 5873-54-1 | |
| 4,4'-Methylenediphenyl diisocyanate | 101-68-8 | |
| 2,2'-Methylenediphenyl diisocyanate | 2536-05-2 | |

**FURTHER ADVICE:** Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation.

### Chemical Name:

Isocyanic acid, polymethylenepolyphenylene ester

**EC No.:** - (Polymer)

**CAS-No.:** 9016-87-9

### DNELs - Derived no effect level

| | Workers | | | | Consumers | | | |
|---|---|---|---|---|---|---|---|---|
| Route of Exposure | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic |
| Oral | Not required | | | | | 20 mg/kg bw/ day | | |
| Inhalation | 0.1 mg/m3 | 0.1 mg/m3 | 0.05 mg/m3 | 0.05 mg/m3 | 0.05 mg/m3 | 0.05 mg/m3 | 0.025 mg/m3 | 0.025 mg/m3 |
| Dermal | 27.8 mg/kg bw/day | | | | 17.2 mg/cm2 | 25 mg/kg bw/ day | 25 mg/kg bw/ day | |

### PNEC's - Predicted no effect concentration

| Environmental protection target | PNEC |
|---|---|
| Fresh water | 1 mg/l |
| Fresh water sediments | |
| Marine water | 0.1 mg/l |
| Marine sediments | |
| Food chain | |
| Microorganisms in sewage treatment | 1 mg/l |
| soil (agricultural) | 1 mg/kg |
| Air | |

### Chemical Name:

Diphenylmethane-2,4'-diisocyanate

**EC No.:** 227-534-9

**CAS-No.:** 5873-54-1

### DNELs - Derived no effect level

| | Workers | | | | Consumers | | | |
|---|---|---|---|---|---|---|---|---|
| Route of Exposure | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic |
| Oral | Not required | | | | | 20 mg/kg bw/d | | |
| Inhalation | 0.1 mg/m³ | 0.1 mg/m³ | 0.05 mg/m³ | 0.05 mg/m³ | 0.05 mg/m³ | 0.05 mg/m³ | 0.025 mg/m³ | 0.025 mg/m³ |
| Dermal | 28.7 mg/cm² | 50 mg/kg bw/d | | | 17.2 mg/cm² | 25 mg/kg bw/d | | |

### PNEC's - Predicted no effect concentration

| Environmental protection target | PNEC |
|---|---|
| Fresh water | >1 mg/l |
| Fresh water sediments | |
| Marine water | >0.1 mg/l |
| Marine sediments | |
| Food chain | |
| Microorganisms in sewage treatment | >1 mg/l |
| soil (agricultural) | >1 mg/kg |
| Air | |

**Chemical Name:**

4,4'-Methylenediphenyl diisocyanate

**EC No.:** 202-966-0

**CAS-No.:** 101-68-8

**DNELs - Derived no effect level**

| | Workers | | | | Consumers | | | |
|---|---|---|---|---|---|---|---|---|
| Route of Exposure | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic | Acute effect local | Acute effects systemic | Chronic effects local | Chronic effects systemic |
| Oral | Not required | | | | | 20 mg/kg bw/d | | |
| Inhalation | 0.1 mg/m³ | 0.1 mg/m³ | 0.05 mg/m³ | 0.05 mg/m³ | 0.05 mg/m³ | 0.05 mg/m³ | 0.025 mg/m³ | 0.025 mg/m³ |
| Dermal | 28.7 mg/cm² | 50 mg/kg bw/d | | | 17.2 mg/cm² | 25 mg/kg bw/d | | |

**PNEC's - Predicted no effect concentration**

| Environmental protection target | PNEC |
|---|---|
| Fresh water | >1 mg/l |
| Fresh water sediments | |
| Marine water | >0.1 mg/l |
| Marine sediments | |
| Food chain | |
| Microorganisms in sewage treatment | >1 mg/l |
| soil (agricultural) | >1 mg/kg |
| Air | |

### 8.2 Exposure controls

**Personal Protection**

**RESPIRATORY PROTECTION:** No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment. Combination filter: A2-P2.

**EYE PROTECTION:** Safety glasses with side-shields conforming to EN 166.

**HAND PROTECTION:** Isocyanates can harden gloves and increase the risk of their splitting. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). Long sleeved clothing. Remove and wash contaminated clothing before re-use. Protective gloves complying with EN 374: Viton®, Neoprene, Nitril rubber, Butyl rubber.

**OTHER PROTECTIVE EQUIPMENT:** Ensure that eyewash stations and safety showers are close to the workstation location.

**ENGINEERING CONTROLS:** At temperatures below 30°C, provide a good standard of general ventilation. At temperatures over 30°C - and always if sprayed - exhaust ventilation is required. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

## SECTION 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| **Colour:** | Brown |
| **Physical State** | Liquid |
| **Odor** | Earthy, Musty |
| **Odor threshold** | Not determined |
| **pH** | Not determined |
| **Melting point / freezing point (°C)** | Not determined |
| **Boiling point or initial boiling point and boiling range (°C)** | 300 - N.D. |
| **Flash Point, (°C)** | Not measured |
| **Evaporation rate** | Not determined |
| **Flammability (solid, gas)** | Not determined |
| **Llower and upper explosive limit** | 999 - 0 |
| **Vapour Pressure** | ca 19 hPa (20 °C) |

| | |
|---|---|
| **Relative vapour density** | Not determined |
| **Density and/or relative density** | Not determined |
| **Solubility in / Miscibility with water** | Insoluble, Reacts with Water |
| **Partition coefficient: n-octanol/water** | Not determined |
| **Auto-ignition temperature (°C)** | Not determined |
| **Decomposition temperature (°C)** | Not determined |
| **Kinematic viscosity** | ca 84 mPa.s (20 °C) |
| **Particle characteristics** | Not applicable to liquids |

**9.2 Other information**

| | |
|---|---|
| **VOC Content g/l:** | <10 |
| **Specific Gravity (g/cm3)** | 0.120 |

## SECTION 10: Stability and Reactivity

**10.1 Reactivity**
No reactivity hazards known under recommended storage and use conditions.

**10.2 Chemical stability**
Stable under recommended storage conditions. Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

**10.3 Possibility of hazardous reactions**
Polymerises at about 200°C with evolution of CO2. Amines and alcohols cause exothermic reactions. Preparation reacts slowly with water resulting in evolution of CO2.

**10.4 Conditions to avoid**
Avoid temperatures above 30 °C, direct sunlight and contact with sources of heat. Do not freeze.

**10.5 Incompatible materials**
Keep away from oxidising agents, strongly acid or alkaline materials, as well as of amines, alcohols and water.

**10.6 Hazardous decomposition products**
In case of fire **hazardous decomposition products** may be produced such as**:** Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke. Preparation reacts slowly with water resulting in evolution of CO2. Evolution of CO2 in closed containers causes overpressure and produces a risk of bursting.

## SECTION 11: Toxicological information

**11.1 Information on hazard classes as definied in Regulation (EC) No 1272/2008**

**Acute Toxicity:**

| | |
|---|---|
| **Oral LD50:** | No information available on the product itself as the product is not tested. |
| **Inhalation LC50:** | No information available on the product itself as the product is not tested. |
| **Dermal LD50:** | No Information |
| **Irritation:** | Irritating to eyes and skin. Vapour/spray mist may irritate respiratory system and lungs. |
| **Corrosivity:** | No information available. |
| **Sensitization:** | May cause respiratory allergy and allergic contact eczema. |
| **Repeated dose toxicity:** | No information available. |
| **Carcinogenicity:** | Suspected of causing cancer by inhalation. This is of particular concern when in aerosol form e.g. when sprayed. |

**Mutagenicity:** No information available.

**Toxicity for reproduction:** No information available.

**STOT-single exposure:** May cause respiratory irritation.

**STOT-repeated exposure:** May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard:** No information available.

**If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:**

| CAS-No. | Name According to EEC | Oral LD50 | Dermal LD50 | Vapor LC50 | Gas LC50 | Dust/Mist LC50 |
|---|---|---|---|---|---|---|
| 9016-87-9 | Isocyanic acid, polymethylenepolyphenylene ester | >10000 mg/kg (rat, OECD TG 401) | >9400 mg/kg (rabbit, OECD TG 402) | | | 1.5 mg/l (ATE) |
| 5873-54-1 | Diphenylmethane-2,4'-diisocyanate | >2000 mg/kg (rat) | >9400 mg/kg (rabbit, OECD TG 402) | | | 1.5 mg/l (ATE) |
| 101-68-8 | 4,4'-Methylenediphenyl diisocyanate | >2000 mg/kg (rat) | >9400 mg/kg (rabbit, OECD TG 402) | | | 1.5 mg/l (ATE) |
| 2536-05-2 | 2,2'-Methylenediphenyl diisocyanate | > 15000 mg/kg (rat) | | 370 mg/m3, 4 h | 0.000 | 0.000 |

**Additional Information:**

In the case of sensitisation to any of the ingredients, it is inadvisable to work with the product. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. Isocyanates may cause acute irritation and/or sensitisation of the respiratory system leading to tightness of the chest, wheeziness and an asthmatic condition.

**11.2 Information on other hazards**

**Endocrine disrupting properties - Toxicity**

| Name According to EEC | CAS-No. |
|---|---|
| No Information | |

## SECTION 12: Ecological Information

**12.1 Toxicity:**

**EC50 48hr (Daphnia):** No information available on the product itself as the product is not tested.

**IC50 72hr (Algae):** No information available on the product itself as the product is not tested.

**LC50 96hr (fish):** No information available on the product itself as the product is not tested.

**12.2 Persistence and degradability:** No information available on the product itself as the product is not tested.

**12.3 Bioaccumulative potential:** No information available on the product itself as the product is not tested.

**12.4 Mobility in soil:** No information available on the product itself as the product is not tested.

**12.5 Results of PBT and vPvB assessment:** The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

**12.6 Endocrine disrupting properties**

**Endocrine disrupting properties - Ecotoxicity**

| Name According to EEC | CAS-No. |
|---|---|
| No Information | |

**12.7 Other adverse effects:** No information available on the product itself as the product is not tested.

| CAS-No. | Name According to EEC | EC50 48hr | IC50 72hr | LC50 96hr |
|---|---|---|---|---|
| 9016-87-9 | Isocyanic acid, polymethylenepolyphenylene ester | >1000 mg/l (24 h) OECD 202 | >1640 mg/l OECD 201 | >1000 mg/l (Danio rerio) OECD 203 |
| 5873-54-1 | Diphenylmethane-2,4'-diisocyanate | >1000 mg/l OECD 202 | >1640 mg/l OECD 201 | >1000 mg/l (danio rerio) OECD 203 |
| 101-68-8 | 4,4'-Methylenediphenyl diisocyanate | > 1000 mg/l (24h) OECD 202 | > 1640 mg/l OECD 201 | > 1000 mg/l (danio rerio) OECD 203 |
| 2536-05-2 | 2,2'-Methylenediphenyl diisocyanate | No information | No information | No information |

## SECTION 13: Disposal Considerations

**13.1 WASTE TREATMENT METHODS:** Dispose of waste material at an approved hazardous waste treatment/disposal facility in accordance with applicable local state, and federal regulations. Do not dispose of waste with normal garbage, or to sewer systems. Contaminated packaging to be disposed of as product. Empty containers should be taken to an approved waste handling site for recycling or disposal. The product should not be allowed to enter drains, water courses or the soil.

**European Waste Code:** 080501*
**Packaging Waste Code:** 150110

## SECTION 14: Transport Information

| | | ADR/RID | ADN | IMDG | IATA |
|---|---|---|---|---|---|
| 14.1 | UN-number or ID number | No Information | No Information | No Information | No Information |
| 14.2 | UN proper shipping name | Not regulated for transport according to ADR/RID, IMDG, and IATA regulations. | Not regulated for transport according to ADR/RID, IMDG, and IATA regulations. | Not regulated for transport according to ADR/RID, IMDG, and IATA regulations. | Not regulated for transport according to ADR/RID, IMDG, and IATA regulations. |
| 14.3 | Transport Hazard Class(es) | No Information | No Information | No Information | No Information |
| 14.4 | Packing Group | No Information | No Information | No Information | No Information |
| 14.5 | Enviromental Hazards | No Information | No Information | No Information | No Information |

**14.6 Special precautions for user** Not applicable

**EmS-No.:** Not applicable

**14.7 Maritime transport in bulk according to IMO intruments** Not applicable

## SECTION 15: Regulatory Information

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

**National Regulations:**

**Denmark Product Registration Number:** Not available

**Danish MAL Code:** 00-3 (1993)

**Danish MAL Code - Mixture:** 00-3 (1993)

**Sweden Product Registration Number:** Not available

**Norway Product Registration Number:** Not available

**Germany WGK Class:** 1

**Directive 2004/42/CE :** <20

**Covered by Directive 2012/18/EC (Seveso III):** Not applicable

**Restrictions to product or to substances according to Annex XVII, Regulation (CE) 1907/2006:** Not applicable

**Annex XIV, Regulation (CE) 1907/2006 - Authorisation List:**

| CAS-No. | Name According to EEC |
|---|---|
| Not Applicable | |

**SVHC - Substances of very high concern (Candidate List - Art. 59 REACH):**

| CAS-No. | Name According to EEC |
|---|---|
| Not Applicable | |

**15.2 Chemical Safety Assessment:**

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

## SECTION 16: Other Information

**Text for CLP Hazard Statements shown in Section 3 describing each ingredient:**

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

**Reasons for revision**

Substance and/or Product Properties Changed in Section(s):
01 - Identification
02 - Hazard Identification
03 - Composition/Information On Ingredients
08 - Exposure Controls/Personal Protection
09 - Physical and Chemical Properties
11 - Toxicological Information
14 - Transportation Information
Revision Statement(s) Changed

.

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

- The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark.
- Joint Research Centre in Ispra, Italy.
- Regulation (EC) 1272/2008 with subsequent amendments.
- Regulation (EC) 1272/2006 with subsequent amendments.
- Commission Regulation (EU) 2020/878
- EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"
- Safety Data Sheet from raw material supplier
- The classification of the product is based on the calculation methods set out in Annex I and Annex II of the CLP Reg. 1272/2008 on the exact composition of the formula

Acronym & Abbreviation Key:

| | |
|---|---|
| CLP | Classification, Labeling & Packaging Regulation |
| EC | European Commission |

| | |
|---|---|
| EU | European Union |
| US | United States |
| CAS | Chemical Abstract Service |
| EINECS | European Inventory of Existing Chemical Substances |
| REACH | Registration, Evaluation, Authorization of Chemicals Regulation |
| GHS | Globally Harmonized System of Classification and Labeling of Chemicals |
| LTEL | Long term exposure limit |
| STEL | Short term exposure limit |
| OEL | Occupational exposure limit |
| ppm | Parts per million |
| mg/m3 | Milligrams per cubic meter |
| TLV | Threshold Limit Value |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| OSHA | Occupational Safety & Health Administration |
| PEL | Permissible Exposure Limits |
| VOC | Volatile organic compounds |
| g/l | Grams per liter |
| mg/kg | Milligrams per kilogram |
| N/A | Not applicable |
| LD50 | Lethal dose at 50% |
| LC50 | Lethal concentration at 50% |
| EC50 | Half maximal effective concentration |
| IC50 | Half maximal inhibitory concentration |
| PBT | Persistent bioaccumulative toxic chemical |
| vPvB | Very persistent and very bioaccumulative |
| EEC | European Economic Community |
| ADR | International Transport of Dangerous Goods by Road |
| RID | International Transport of Dangerous Goods by Rail |
| UN | United Nations |
| IMDG | International Maritime Dangerous Goods Code |
| IATA | International Air Transport Association |
| MARPOL | International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 |
| IBC | International Bulk Container |
| RTI | Respiratory Tract Irritation |
| NE | Narcotic Effects |
| IMO | International Maritime Organization |
| Note P: | The classification as a carcinogen or mutagen need not apply; the substance contains less than 0,1 % w/w benzene |
| Note 10: | The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm. |

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.