# EU safety data sheet

**Trade name:** Härter WG
**Product no.:** B5.
**Current version :** 1.1.1, issued: 02.03.2022 **Replaced version:** 1.1.0, issued: 07.12.2021 **Region:** GB

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

### 1.1 Product identifier

**Trade name**

**Härter WG**

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

**Relevant identified uses of the substance or mixture**
filling compound for electrotecnical use

**Uses advised against**
No data available.

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

**Address**
BBC Cellpack GmbH
Carl-Zeiss-Strasse 20
79761 Waldshut-Tiengen

Telephone no. +49 (0)7741 6007-0
Fax no. +49 (0)7741 64989
e-mail electrical.products@cellpack.com

**Information provided by / telephone**
+49 (0)7741 6007-0

**Advice on Safety Data Sheet**
msds@cellpack.com

### 1.4 Emergency telephone number

For medical advice (in German and English):
+49 (0)551 192 40 (Giftinformationszentrum Nord)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**
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

**Classification information**
This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:
Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP
Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)**

**Hazard pictograms**


GHS07


GHS08

**Signal word**
Danger

**Hazardous component(s) to be indicated on label:**
diphenylmethanediisocyanate, isomeres and homologues
diphenylmethane-4,4'-diisocyanate
diphenylmethane-2,4'-diisocyanate
2,2'-methylenediphenyl diisocyanate

**Hazard statement(s)**

| | |
|---|---|
| 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 |

**Hazard statements (EU)**

| | |
|---|---|
| EUH204 | Contains isocyanates. May produce an allergic reaction. |

**Precautionary statement(s)**

| | |
|---|---|
| P201 | Obtain special instructions before use. |
| P260 | Do not breathe dust/fume/spray. |
| P264 | Wash skin thoroughly after handling. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| P342+P311 | If experiencing respiratory symptoms: Call a POISON CENTER/doctor. |

**Supplemental label elements**
'As from 24 August 2023 adequate training is required before industrial or professional use'

### 2.3 Other hazards
The product may be a skin sensitiser. It may also be a severe skin irritant. In case of respiratory system hypersensitivity (asthma, chronic bronchitis) do not handle this product.

PBT assessment
The product is not considered to be a PBT.

vPvB assessment
The product is not considered to be a vPvB.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances
Not applicable. The product is not a substance.

### 3.2 Mixtures
**Chemical characterization**
diphenylmethanediisocyanate, isomeres and homologues

**Hazardous ingredients**

| No | Substance name | | Additional information | |
|---|---|---|---|---|
| | CAS / EC / Index / REACH no | Classification (EC) 1272/2008 (CLP) | Concentration | % |
| 1 | diphenylmethanediisocyanate, isomeres and homologues | | | |
| | 9016-87-9 | Carc. 2; H351 | >= 70.00 - < 90.00 | wt% |

| | | | | |
|---|---|---|---|---|
| | -<br>-<br>- | Acute Tox. 4; H332<br>STOT SE 3; H335<br>STOT RE 2; H373<br>Eye Irrit. 2; H319<br>Skin Irrit. 2; H315<br>Resp. Sens. 1; H334<br>Skin Sens. 1; H317 | | |
| 2 | **diphenylmethane-4,4'-diisocyanate** | | | |
| | 101-68-8<br>202-966-0<br>615-005-00-9<br>01-2119457014-47 | Acute Tox. 4; H332<br>Carc. 2; H351<br>Eye Irrit. 2; H319<br>Resp. Sens. 1; H334<br>Skin Irrit. 2; H315<br>Skin Sens. 1; H317<br>STOT RE 2; H373i<br>STOT SE 3; H335 | >= 10.00 - < 25.00 | wt% |
| 3 | **diphenylmethane-2,4'-diisocyanate** | | | |
| | 5873-54-1<br>227-534-9<br>615-005-00-9<br>01-2119480143-45 | Acute Tox. 4; H332<br>Carc. 2; H351<br>Eye Irrit. 2; H319<br>Resp. Sens. 1; H334<br>Skin Irrit. 2; H315<br>Skin Sens. 1; H317<br>STOT RE 2; H373i<br>STOT SE 3; H335 | >= 5.00 - < 10.00 | wt% |
| 4 | **2,2'-methylenediphenyl diisocyanate** | | | |
| | 2536-05-2<br>219-799-4<br>615-005-00-9<br>01-2119927323-43 | Acute Tox. 4; H332<br>Carc. 2; H351<br>Eye Irrit. 2; H319<br>Resp. Sens. 1; H334<br>Skin Irrit. 2; H315<br>Skin Sens. 1; H317<br>STOT RE 2; H373i<br>STOT SE 3; H335 | < 2.50 | wt% |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

| No | Note | Specific concentration limits | M-factor (acute) | M-factor (chronic) |
|---|---|---|---|---|
| 1 | - | Resp. Sens. 1; H334: C >= 0.1%<br>Eye Irrit. 2; H319: C >= 5%<br>STOT SE 3; H335: C >= 5%<br>Skin Irrit. 2; H315: C >= 5% | - | - |
| 2 | C, 2 | Resp. Sens. 1; H334: C >= 0.1%<br>Eye Irrit. 2; H319: C >= 5%<br>Skin Irrit. 2; H315: C >= 5%<br>STOT SE 3; H335: C >= 5% | - | - |
| 3 | C, 2 | Resp. Sens. 1; H334: C >= 0.1%<br>Eye Irrit. 2; H319: C >= 5%<br>STOT SE 3; H335: C >= 5%<br>Skin Irrit. 2; H315: C >= 5% | - | - |
| 4 | C, 2 | Resp. Sens. 1; H334: C >= 0.1%<br>Eye Irrit. 2; H319: C >= 5%<br>Skin Irrit. 2; H315: C >= 5%<br>STOT SE 3; H335: C >= 5% | - | - |

Full text for the notes: pls. see section 16 “Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)”.

| No | Route, target organ, concrete effect |
|---|---|
| 1 | H373 |

| | |
|---|---|
| | inhalational; hearing; - |
| 2 | H373i<br>inhalational; -; - |
| 3 | H373i<br>inhalational; -; - |
| 4 | H373i<br>inhalational; -; - |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General information**
In all cases of doubt, or when sickness symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Remove soiled or soaked clothing immediately.

**After inhalation**
Remove to fresh air, keep patient warm and at rest. Irregular breathing/no breathing: artificial respiration. If unconscious place in recovery position and seek medical advice.

**After skin contact**
Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

**After eye contact**
Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.

**After ingestion**
Do not induce vomiting. Call a doctor immediately. Never give anything by mouth to an unconscious person. Keep at rest.

### 4.2 Most important symptoms and effects, both acute and delayed
No data available.

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

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media**
Alcohol resistant foam, CO2, powders, water spray

**Unsuitable extinguishing media**
High power water jet

### 5.2 Special hazards arising from the substance or mixture
Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Carbon monoxide and carbon dioxide; Hydrogen cyanide (HCN); Isocyanate vapours.

### 5.3 Advice for firefighters
Appropriate breathing apparatus may be required. Cool endangered containers with water in case of fire. DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER DRAINS OR WATER COURSES; Fire residues must be disposed of in a proper manner.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel**
Exclude sources of ignition and ventilate the area. Do not inhale vapours. Refer to protective measures listed in sections 7 and 8.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

### 6.2 Environmental precautions

Do not allow to enter drains. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to local regulations (see section 13).

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

Contain and collect spillage with absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents. - Liquid/yellow soap (potassium soap with ~ 15% anionic surfactants): 20ml; Water: 700ml; Polyethylene glycol (PEG 400): 350ml; - 8-10% sodium carbonate and 2% aqueous liquid soap

### 6.4 Reference to other sections

No data available.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling**
Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used ! The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Comply with the health and safety at work laws.

**General protective and hygiene measures**
Do not eat or drink during work - no smoking. Avoid product contact with skin, eyes and clothing

**Advice on protection against fire and explosion**
No special measures necessary.

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

**Technical measures and storage conditions**
Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep container dry in a cool, well-ventilated place. Precautions should be taken to minimise exposure to atmospheric humidity or water: CO2 will be formed which in closed containers can result in pressurisation. DO NOT KEEP THE CONTAINERS SEALED !!

**Recommended storage temperature**

| | | | | |
|---|---|---|---|---|
| Value | 0 | - | 40 | °C |

**Requirements for storage rooms and vessels**
Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access! Containers which are opened must be carefully closed and kept upright to prevent leakage.

**Incompatible products**
Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

### 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational exposure limit values**

| No | Substance name | CAS no. | EC no. |
|---|---|---|---|
| 1 | **diphenylmethanediisocyanate, isomeres and homologues** | **9016-87-9** | |
| | **List of approved workplace exposure limits (WELs) / EH40** | | |
| | Isocyanates, all (as -NCO) Exept methyl isocyanate | | |
| | WEL short-term (15 min reference period) | 0.07 mg/m³ | |

| | | | | |
|---|---|---|---|---|
| | WEL long-term (8-hr TWA reference period) | 0.02 | mg/m³ | |
| | Comments | Sen | | |
| **2** | **diphenylmethane-4,4'-diisocyanate** | **101-68-8** | | **202-966-0** |
| | **List of approved workplace exposure limits (WELs) / EH40** | | | |
| | Isocyanates, all (as -NCO) Exept methyl isocyanate | | | |
| | WEL short-term (15 min reference period) | 0.07 | mg/m³ | |
| | WEL long-term (8-hr TWA reference period) | 0.02 | mg/m³ | |
| | Comments | Sen | | |
| **3** | **2,2'-methylenediphenyl diisocyanate** | **2536-05-2** | | **219-799-4** |
| | **List of approved workplace exposure limits (WELs) / EH40** | | | |
| | Isocyanates, all (as -NCO) Exept methyl isocyanate | | | |
| | WEL short-term (15 min reference period) | 0.07 | mg/m³ | |
| | WEL long-term (8-hr TWA reference period) | 0.02 | mg/m³ | |
| | Comments | Sen | | |

## DNEL, DMEL and PNEC values

**DNEL values (worker)**

| No | Substance name | | | CAS / EC no | |
|---|---|---|---|---|---|
| | **Route of exposure** | **Exposure time** | **Effect** | **Value** | |
| 1 | **diphenylmethane-4,4'-diisocyanate** | | | **101-68-8<br>202-966-0** | |
| | inhalative | Long term (chronic) | local | 0.05 | mg/m³ |
| | inhalative | Short term (acut) | local | 0.1 | mg/m³ |
| 2 | **diphenylmethane-2,4'-diisocyanate** | | | **5873-54-1<br>227-534-9** | |
| | inhalative | Long term (chronic) | local | 0.05 | mg/m³ |
| | inhalative | Short term (acut) | local | 0.1 | mg/m³ |
| 3 | **2,2'-methylenediphenyl diisocyanate** | | | **2536-05-2<br>219-799-4** | |
| | inhalative | Short term (acut) | local | 0.1 | mg/m³ |
| | inhalative | Long term (chronic) | local | 0.05 | mg/m³ |

**DNEL value (consumer)**

| No | Substance name | | | CAS / EC no | |
|---|---|---|---|---|---|
| | **Route of exposure** | **Exposure time** | **Effect** | **Value** | |
| 1 | **diphenylmethane-4,4'-diisocyanate** | | | **101-68-8<br>202-966-0** | |
| | inhalative | Long term (chronic) | local | 0.025 | mg/m³ |
| | inhalative | Short term (acut) | local | 0.05 | mg/m³ |
| 2 | **diphenylmethane-2,4'-diisocyanate** | | | **5873-54-1<br>227-534-9** | |
| | inhalative | Long term (chronic) | local | 0.025 | mg/m³ |
| | inhalative | Short term (acut) | local | 0.05 | mg/m³ |
| 3 | **2,2'-methylenediphenyl diisocyanate** | | | **2536-05-2<br>219-799-4** | |
| | inhalative | Short term (acut) | local | 0.05 | mg/m³ |
| | inhalative | Long term (chronic) | local | 0.025 | mg/m³ |

**PNEC values**

| No | Substance name | | CAS / EC no | |
|---|---|---|---|---|
| | **ecological compartment** | **Type** | **Value** | |
| 1 | **diphenylmethane-4,4'-diisocyanate** | | **101-68-8<br>202-966-0** | |
| | water | fresh water | 1 | mg/L |
| | water | marine water | 0.1 | mg/L |
| | soil | - | 1 | mg/kg dry weight |

| | | | | |
|---|---|---|---|---|
| | sewage treatment plant | - | 1 | mg/L |
| 2 | **diphenylmethane-2,4'-diisocyanate** | | **5873-54-1<br>227-534-9** | |
| | water | marine water | 0.1 | mg/L |
| | water | Aqua intermittent | 10 | mg/L |
| | soil | - | 1 | mg/kg dry weight |
| | sewage treatment plant | - | 1 | mg/L |
| 3 | **2,2'-methylenediphenyl diisocyanate** | | **2536-05-2<br>219-799-4** | |
| | water | fresh water | 1 | mg/L |
| | water | marine water | 0.1 | mg/L |
| | sewage treatment plant | - | 1 | mg/L |
| | secondary poisoning | - | 1 | mg/kg dry weight |

### 8.2 Exposure controls

**Appropriate engineering controls**
Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn. Air-fed protective respiratory equipment must be worn by spray operator even when good ventilation is provided.

**Personal protective equipment**

**Respiratory protection**
When spraying: air fed respirator. For operations other than spraying: In well ventilated areas, air-fed respirators could be replaced by a combination of charcoal filter and particulate filter mask.

**Eye / face protection**
Wear safety goggles to protect against solvent splashes.

**Hand protection**
Adhere to the professional organisation rule “Use of protective gloves”.
Appropriate chemicals resistant glove tested in compliance with EN 374.
Recommendation for protection against components generally found in the products:

For short-term contact (i.e. splash protection):
Appropriate material: nitrile rubber, Neopren
Material thickness: > 0.4 mm
Breakthrough time: > 480 min

Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties).
Adhere to the manufacturer’s instructions and information relating to the use, storage, care and replacement of protective gloves.
Protective gloves shall be replaced immediately when physically damaged or worn. Preventive hand protection (skin protection cream) recommended. Wash immediately contaminated skin).
Design operations thus to avoid permanent use of protective gloves.

**Other**
Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

**Environmental exposure controls**
No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| State of aggregation |
|---|

| |
|---|
| liquid |

| **Form/Colour** |
|---|
| liquid |
| brown |

| **Odour** |
|---|
| Earthy; musty |

| **pH value** |
|---|
| not determined |

| **Boiling point / boiling range** | | | |
|---|---|---|---|
| Value | > | 300 | °C |
| Reference pressure | | 1013 | hPa |
| Method | DIN 53171 | | |
| Source | Manufacturer | | |

| **Melting point/freezing point** |
|---|
| No data available |

| **Decomposition temperature** |
|---|
| No data available |

| **Pour point** | | | |
|---|---|---|---|
| Value | | -30 | °C |
| Method | DIN 3016 | | |

| **Flash point** | | | |
|---|---|---|---|
| Value | | 229 | °C |
| Method | DIN EN 22719 | | |
| Source | Manufacturer | | |

| **Ignition temperature** | | | |
|---|---|---|---|
| Value | > | 500 | °C |
| Method | DIN 51794 | | |

| **Flammability** |
|---|
| No data available |

| **Lower explosion limit** |
|---|
| No data available |

| **Upper explosion limit** |
|---|
| No data available |

| **Vapour pressure** | | | |
|---|---|---|---|
| Value | | 11 | hPa |
| Reference temperature | | 20 | °C |
| Method | 92/69/EEC, A.4 | | |
| Value | | 20 | hPa |
| Reference temperature | | 50 | °C |
| Method | 92/69/EEC, A.4 | | |

| **Relative vapour density** |
|---|
| No data available |

| **Relative density** |
|---|
| No data available |

| **Density** | | | |
|---|---|---|---|
| Value | | 1.232 | g/cm³ |
| Reference temperature | | 20 | °C |
| Method | DIN 51757 | | |

| **Solubility in water** | | | |
|---|---|---|---|
| Reference temperature | 15 | °C | |
| Comments | immiscible | | |

| **Solubility** |
|---|
| No data available |

| **Partition coefficient n-octanol/water (log value)** | | | |
|---|---|---|---|
| **No** | **Substance name** | **CAS no.** | **EC no.** |
| **1** | **diphenylmethane-4,4'-diisocyanate** | **101-68-8** | **202-966-0** |
| log Pow | | 4.51 | |
| Reference temperature | | 20 | °C |
| Method | OECD 117 | | |
| Source | ECHA | | |
| **2** | **diphenylmethane-2,4'-diisocyanate** | **5873-54-1** | **227-534-9** |
| log Pow | | 4.51 | |
| Reference temperature | | 22 | °C |
| with reference to | pH 7 | | |
| Method | OECD 117 | | |
| Source | ECHA | | |

| **Viscosity** | | | |
|---|---|---|---|
| Value | appr. | 145 | mPa*s |
| Reference temperature | | 20 | °C |
| Type | dynamic | | |
| Method | DIN 53019 | | |

| **Particle characteristics** |
|---|
| No data available |

### 9.2 Other information

| **Other information** |
|---|
| No data available. |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity
Dangerous reactions are not expected if the product is handled according to its intended use.

### 10.2 Chemical stability
Release of carbon dioxide (CO2) starting from a polymerisation temperature of approximately 200°C.

### 10.3 Possibility of hazardous reactions
Contamination with incompatible materials and other compounds which react with isocyanates may result in dangerous pressure and possible bursting of closed containers.

### 10.4 Conditions to avoid
No data available.

### 10.5 Incompatible materials
Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. The product reacts slowly with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result distortion blowing and in extreme cases bursting of the container.

### 10.6 Hazardous decomposition products
In a fire, hazardous decomposition products, such as smoke, carbon monoxide, carbon dioxiode, oxides of nitrogen, hydrogen cyanide, monomers of isocyanates, amines and alcohols may be produced.

## SECTION 11: Toxicological information

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

| **Acute oral toxicity** | | | |
|---|---|---|---|
| **No** | **Substance name** | **CAS no.** | **EC no.** |
| **1** | **diphenylmethane-4,4'-diisocyanate** | **101-68-8** | **202-966-0** |

| | | | |
|---|---|---|---|
| LD50 | > | 2000 | mg/kg bodyweight |
| Species | rat | | |
| Source | ECHA / Read across | | |

| **Acute dermal toxicity** | | | |
|---|---|---|---|
| **No** | **Substance name** | **CAS no.** | **EC no.** |
| **1** | **diphenylmethane-4,4'-diisocyanate** | **101-68-8** | **202-966-0** |

| | | | |
|---|---|---|---|
| LD50 | > | 9400 | mg/kg bodyweight |
| Species | rabbit | | |
| Method | OECD 402 | | |
| Source | ECHA / Read across | | |

| **Acute inhalational toxicity (result of the ATE calculation for the mixture)** | |
|---|---|
| **No** | **Product Name** |
| **1** | **Härter WG** |

| | |
|---|---|
| ATE (Mixture) | 15.4712 mg/l |
| Route of exposure / physical from | Vapour |
| Method | Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6. |

| **Acute inhalational toxicity** |
|---|
| No data available |

| **Skin corrosion/irritation** | | | |
|---|---|---|---|
| **No** | **Substance name** | **CAS no.** | **EC no.** |
| **1** | **diphenylmethane-4,4'-diisocyanate** | **101-68-8** | **202-966-0** |

| | |
|---|---|
| Method | OECD 404 |
| Source | ECHA / Read across |
| Evaluation | irritant |

| **Serious eye damage/irritation** |
|---|
| No data available |

| **Respiratory or skin sensitisation** |
|---|
| No data available |

| **Germ cell mutagenicity** | | | |
|---|---|---|---|
| **No** | **Substance name** | **CAS no.** | **EC no.** |
| **1** | **diphenylmethane-2,4'-diisocyanate** | **5873-54-1** | **227-534-9** |

| | |
|---|---|
| Source | ECHA |
| Evaluation/classification | Based on available data, the classification criteria are not met. |

| **Reproduction toxicity** |
|---|
| No data available |

| **Carcinogenicity** |
|---|
| No data available |

| **STOT - single exposure** |
|---|
| No data available |

| **STOT - repeated exposure** |
|---|
| No data available |

| **Aspiration hazard** |
|---|
| No data available |

| **Delayed and immediate effects as well as chronic effects from short and long-term exposure** |
|---|

Prolonged contact with the skin may produce tannic effects and lead to irritation. Eye contact with the product can cause severe eye irritation with redness and conjunctival swelling. Repeated or prolonged skin contact may cause allergic skin reactions in sensitive individuals which can be seen as redness.

### 11.2 Information on other hazards

**Endocrine disrupting properties**
No data available.

**Other information**
Based on the properties of the isocyanate components and considering toxicological data on similar preparations: This preparation may cause acute irritation and/or sensitisation of the respiratory system leading to an asthmatic condition, wheeziness and a thightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability.

## SECTION 12: Ecological information

### 12.1 Toxicity

| **Toxicity to fish (acute)** |
|---|
| No data available |

| **Toxicity to fish (chronic)** |
|---|
| No data available |

| **Toxicity to Daphnia (acute)** |
|---|
| No data available |

| **Toxicity to Daphnia (chronic)** |
|---|
| No data available |

| **Toxicity to algae (acute)** |
|---|
| No data available |

| **Toxicity to algae (chronic)** |
|---|
| No data available |

| **Bacteria toxicity** |
|---|
| No data available |

### 12.2 Persistence and degradability
No data available.

### 12.3 Bioaccumulative potential

| **Bioconcentration factor (BCF)** | | | | |
|---|---|---|---|---|
| **No** | **Substance name** | **CAS no.** | | **EC no.** |
| **1** | **diphenylmethane-2,4'-diisocyanate** | **5873-54-1** | | **227-534-9** |
| BCF | 92 | - | 200 | |
| Method | OECD 305 E | | | |
| Source | ECHA | | | |

| **Partition coefficient n-octanol/water (log value)** | | | | |
|---|---|---|---|---|
| **No** | **Substance name** | **CAS no.** | | **EC no.** |
| **1** | **diphenylmethane-4,4'-diisocyanate** | **101-68-8** | | **202-966-0** |
| log Pow | | 4.51 | | |
| Reference temperature | | 20 | °C | |
| Method | OECD 117 | | | |
| Source | ECHA | | | |
| **2** | **diphenylmethane-2,4'-diisocyanate** | **5873-54-1** | | **227-534-9** |
| log Pow | | 4.51 | | |
| Reference temperature | | 22 | °C | |
| with reference to | pH 7 | | | |

| | |
|---|---|
| Method | OECD 117 |
| Source | ECHA |

### 12.4 Mobility in soil
No data available.

### 12.5 Results of PBT and vPvB assessment

| Results of PBT and vPvB assessment | |
|---|---|
| PBT assessment | The product is not considered to be a PBT. |
| vPvB assessment | The product is not considered to be a vPvB. |

### 12.6 Endocrine disrupting properties
No data available.

### 12.7 Other adverse effects
No data available.

### 12.8 Other information

| Other information |
|---|
| The product should not be allowed to enter drains or water courses. |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Product**
Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN
The product is not subject to ADR/RID/ADN regulations.

### 14.2 Transport IMDG
The product is not subject to IMDG regulations.

### 14.3 Transport ICAO-TI / IATA
The product is not subject to ICAO-TI / IATA regulations.

### 14.4 Other information
No data available.

### 14.5 Environmental hazards
Information on environmental hazards, if relevant, please see 14.1 - 14.3.

### 14.6 Special precautions for user
Transport within the user's premises: To be transported always in closed, upright and safe containers. Make sure that persons handling these containers are aware of the rules of conduct in case of incident or spillage.

### 14.7 Maritime transport in bulk according to IMO instruments
Not relevant

## SECTION 15: Regulatory information

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

**EU regulations**

| **Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)** |
|---|
| According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006. |

| **REACH candidate list of substances of very high concern (SVHC) for authorisation** |
|---|
| According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006. |

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

| | |
|---|---|
| The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. | No 3 |

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

| No | Substance name | CAS no. | EC no. | No |
|---|---|---|---|---|
| 1 | **2,2'-methylenediphenyl diisocyanate** | **2536-05-2** | **219-799-4** | **56, 74, 75** |
| 2 | **diphenylmethane-2,4'-diisocyanate** | **5873-54-1** | **227-534-9** | **56, 74, 75** |
| 3 | **diphenylmethane-4,4'-diisocyanate** | **101-68-8** | **202-966-0** | **56, 74, 75** |
| 4 | **diphenylmethanediisocyanate, isomeres and homologues** | **9016-87-9** | **-** | **56, 74, 75** |

| **Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances** |
|---|
| This product is not subject to Part 1 or 2 of Annex I. |

| **Other regulations** |
|---|
| Adhere to the national sanitary and occupational safety regulations when using this product. |

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

## SECTION 16: Other information

**Sources of key data used to compile the data sheet:**
Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.
Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.
National Threshold Limit Values of the corresponding countries as amended in each case.
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

| | |
|---|---|
| H373i | May cause damage to organs through prolonged or repeated exposure if inhaled. |

**Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)**

| | |
|---|---|
| C | Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers. |
| 2 | The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture. |

This information is based on our present knowledge and experience.
The safety data sheet describes products with a view to safety requirements.
It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:
Alterations to the previous edition are marked in the left-hand margin.

**Trade name:** Härter WG
**Product no.:** B5.
**Current version :** 1.1.1, issued: 02.03.2022 **Replaced version:** 1.1.0, issued: 07.12.2021 **Region:** GB

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