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

## · 1.1 Product identifier

- · Trade name: 4CR 5120 1K PU-Scheibenkleber
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available. · Application of the substance / the mixture Adhesives

 $\cdot$  1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: 4CR Vertriebsgesellschaft mbH **Oberer Sommerfeldweg 2** D-94469 Deggendorf Tel.: +49 (0) 40 69 60 99 315 Fax: +49 (0) 40 69 60 99 316 E-Mail: Info@4CR.com www.4CR.com

• 1.4 Emergency telephone number: +49(0)700 24112112 (CRM)

# **SECTION 2: Hazards identification**

· 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008

GHS08 health hazard

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



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

· 2.2 Label elements

- · Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.
- · Hazard pictograms



- · Signal word Danger
- · Hazard-determining components of labelling:
- Hexamethylene diisocyanate, oligomers
- 4,4'-methylenediphenyl diisocyanate
- · Hazard statements

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction.

- · Precautionary statements
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves.
- P284 [In case of inadequate ventilation] wear respiratory protection.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

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- Additional information:
- EUH204 Contains isocyanates. May produce an allergic reaction.
- Restricted to professional users.
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.

# **SECTION 3: Composition/information on ingredients**

· 3.2 Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

| · Dangerous components:           |   |
|-----------------------------------|---|
|                                   | ylene diisocyanate, oligomers 2.5-<109<br>Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335 |
| Reg.nr.: 01-2119485796-17         | 10x. 4, 1152; Skin Sens. 1, 11517; S101 SE 5, 11555   |
| 01-2119488934-20                  |   |
|                                   | vlenediphenyl diisocyanate<br>Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ≥0.1-<19       |
| Reg.nr.: 01-2119457014-47 🔥 Acute | Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin                                 |
| ,                                 | 317; STOT SE 3, H335  |

· Additional information: For the wording of the listed hazard phrases refer to section 16.

# **SECTION 4: First aid measures**

• 4.1 Description of first aid measures

- · General information: In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation:
- Supply fresh air and to be sure call for a doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- **4.3 Indication of any immediate medical attention and special treatment needed** *No further relevant information available.*
- · Information for doctor:

# **SECTION 5: Firefighting measures**

- 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- $\cdot$  5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released: Nitrogen oxides (NOx) Carbon monoxide (CO)

Hydrogen cyanide (HCN)

- · 5.3 Advice for firefighters
- **Protective equipment:** Mouth respiratory protective device.

# **SECTION 6:** Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Not required.

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|---|---|
|   | t allow to enter sewers/ surface or ground water.   |
| 6.3 Methods and material for containm   |   |
| Dispose contaminated material as waste  |   |
|   | n-combustible absorbent materials (e.g. sand, earth, diatomaceous   |
| earth) and place in a suitable container  |   |
| Decontaminate immediately with suitab   | <i>le mixture (flammable):</i>  |
| - as such usable (inflammatory!):   | 45 Vol.%  |
| water<br>ethanol or isopropanol   | 45 Vol.%  |
| ammonia solution (Density= 0.88   |   |
| - alternatively (non-flammable):  | <i>y y v v v v v v v v v v</i>  |
| sodium carbonate  | 5 Vol.%   |
| water   | 95 Vol.%  |
|   | sidues and allow to stand for several days in an non-sealed container this stage is reached, close the container and dispose of in accordance 13).                            |
| $\cdot$ 6.4 Reference to other sections   |   |
| See Section 7 for information on safe ho  | undling.  |
| See Section 8 for information on person   |   |
| See Section 13 for disposal information.  |   |
|   |   |
| • 7.1 Precautions for safe handling<br>Ensure good ventilation/exhaustion at the  | he workplace.   |
| employed in processes in which this pro   | ergies or chronic or recurrent respiratory diseases should only be<br>duct is used under appropriate medical supervision.<br><b>protection:</b> No special measures required. |
| · 7.2 Conditions for safe storage, includi  |   |
| · Storage:  |   |
| • Requirements to be met by storerooms<br>• Information about storage in one com  | and receptacles: No special requirements.   |
|   | ents, heavy-metal compounds, acids and alkalis.   |
| Store away from foodstuffs.   |   |
| • Further information about storage con   | ditions:  |
| Store in dry conditions.  |   |
| Store separately from oxidising agents,   | strongly alkaline and strongly acidic materials, amines, alcohol and  |
| water.  |   |
| • Storage class: 13   |   |
| · 7.3 Specific end use(s) No further relev  |   |
|   | ant information available.  |
|   | ant information available.  |
| SECTION 8: Exposure controls  |   |
| SECTION 8: Exposure controls  |   |
| SECTION 8: Exposure controls.<br>• Additional information about design of   | personal protection   |
| SECTION 8: Exposure controls,<br>• Additional information about design of<br>• 8.1 Control parameters   | /personal protection<br>f technical facilities: No further data; see item 7.  |
| SECTION 8: Exposure controls,<br>• Additional information about design of<br>• 8.1 Control parameters   | <b>personal protection</b><br>f technical facilities: No further data; see item 7.<br>Fre monitoring at the workplace:  |
| SECTION 8: Exposure controls,<br>· Additional information about design of<br>· 8.1 Control parameters<br>· Ingredients with limit values that requi | <b>personal protection</b><br><b>f technical facilities:</b> No further data; see item 7.<br><b>Tre monitoring at the workplace:</b>  |

exposition evaluation valu TRGS 430 (EBW)

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## 101-68-8 4,4'-methylenediphenyl diisocyanate

WEL Short-term value: 0.07 mg/m<sup>3</sup> Long-term value: 0.02 mg/m<sup>3</sup> Sen; as -NCO

· Additional information: The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

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#### · Personal protective equipment:

All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations.

- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.
- · Respiratory protection:

Filter AX



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

#### · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Fluorocarbon rubber (Viton)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Breakthrough time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Goggles recommended during refilling

| • 9.1 Information on basic physical an | nd chemical properties             |  |
|--|------------------------------------|--|
| · General Information                  |                                    |  |
| · Appearance:                          |                                    |  |
| Form:                                  | Fluid                              |  |
| Colour:                                | According to product specification |  |
| · Odour:                               | Characteristic                     |  |
| • Odour threshold:                     | Not determined.                    |  |
| · pH-value:                            | Not applicable.                    |  |
| · Change in condition                  |                                    |  |
| Melting point/freezing point:          | Undetermined.                      |  |
| Initial boiling point and boiling ra   | inge: Undetermined.                |  |
| · Flash point:                         | Not applicable.                    |  |
| · Flammability (solid, gas):           | Not determined.                    |  |
| · Ignition temperature:                | 420°C (DIN 51794)                  |  |

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|---|---|--------------------|
| · Decomposition temperature:              | Not determined.                               |                    |
| • Auto-ignition temperature:              | Product is not selfigniting.                  |                    |
| · Explosive properties:                   | Product does not present an explosion hazard. |                    |
| · Explosion limits:                       |   |                    |
| Lower:                                    | 0.1 Vol %                                     |                    |
| Upper:                                    | 0.2 Vol %                                     |                    |
| · Vapour pressure:                        | Not applicable.                               |                    |
| · Density at 20°C:                        | 1.325 g/cm <sup>3</sup> (DIN 53217)           |                    |
| · Relative density                        | Not determined.                               |                    |
| · Vapour density                          | Not applicable.                               |                    |
| · Evaporation rate                        | Not applicable.                               |                    |
| · Solubility in / Miscibility with        |   |                    |
| water:                                    | Insoluble.                                    |                    |
| · Partition coefficient: n-octanol/water: | Not determined.                               |                    |
| · Viscosity:                              |   |                    |
| Dynamic at 20°C:                          | 150,000 mPas                                  |                    |
| Kinematic:                                | Not applicable.                               |                    |
| · Solvent content:                        |   |                    |
| VOC (EC)                                  | 0.00 %  |                    |
| Solids content (weight-%):                | 100.0 %                                       |                    |
| • 9.2 Other information                   | No further relevant information available.    |                    |

# SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products:

Possible in traces. Nitrogen oxides Hydrogen chloride (HCl) Hydrogen cyanide (prussic acid)

Carbon monoxide

Nitrogen oxides (NOx)

# **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

- · Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

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· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- $\cdot$  Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity* Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

· 12.1 Toxicity

- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) : slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

# **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

• Uncleaned packaging:

• *Recommendation: Disposal must be made according to official regulations.* 

| 14.1 UN-Number                  |      |  |
|---------------------------------|------|--|
| ADR, ADN, IMDG, IATA            | Void |  |
| 14.2 UN proper shipping name    |      |  |
| ADR, ADN, IMDG, IATA            | Void |  |
| 14.3 Transport hazard class(es) |      |  |
| ADR, ADN, IMDG, IATA            |      |  |
| Class                           | Void |  |
| 14.4 Packing group              |      |  |
| ADR, IMDG, IATA                 | Void |  |
| 14.5 Environmental hazards:     |      |  |
| Marine pollutant:               | No   |  |

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|   |                 | (Contd. of page 6) |
|---|-----------------|--------------------|
| · 14.6 Special precautions for user       | Not applicable. |                    |
| · 14.7 Transport in bulk according to Ann | ex II of        |                    |
| Marpol and the IBC Code                   | Not applicable. |                    |
| · UN ''Model Regulation'':                | Void            |                    |

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 56a

· National regulations:

 Class
 Share in %

 I
 ≥0.1-<1</td>

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases 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. · Classification according to Regulation (EC) No 1272/2008 The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008. · Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Resp. Sens. 1: Respiratory sensitisation – Category 1 Skin Sens. 1: Skin sensitisation - Category 1 Carc. 2: Carcinogenicity - Category 2 (Contd. on page 8)

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STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 ·\* **Data compared to the previous version altered.**