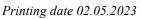
according to 1907/2006/EC, Article 31





*Version number 24 (replaces version 23)* 

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

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier: 4CR International GmbH & Co. KG Donnerstrasse 10b 22763 Hamburg Tel.: +49 (0) 40 69 60 99 30 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



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 GB CLP regulation. • Hazard pictograms
- Hazara 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.* 

#### • Additional information:

EUH204 Contains isocyanates. May produce an allergic reaction.

(Contd. on page 2)

GB

according to 1907/2006/EC, Article 31



Printing date 02.05.2023

#### *Version number 24 (replaces version 23)*

#### Trade name: 4CR 5120 1K PU-Scheibenkleber

(Contd. of page 1)

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

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

· Dangerous components:					
CAS: 1333-86-4 EINECS: 215-609-9 Reg.nr.: 01-2119384822-32	Carbon black substance with a Community workplace exposure limit	10-25%			
CAS: 28553-12-0 EINECS: 249-079-5 Reg.nr.: 01-2119430798-28	<i>Di-"isononyl" phthalate substance with a Community workplace exposure limit</i>	10-25%			
CAS: 28182-81-2 NLP: 500-060-2 Reg.nr.: 01-2119485796-17	Hexamethylene diisocyanate, oligomers Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335, EUH204	5-<10%			
CAS: 101-68-8 EINECS: 202-966-0 Reg.nr.: 01-2119457014-47	4,4'-methylenediphenyl diisocyanateResp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373;Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; SkinSens. 1, H317; STOT SE 3, H335, EUH204Specific concentration limits: Eye Irrit. 2; H319: $C \ge 5$ %Skin Irrit. 2; H315: $C \ge 5$ %Resp. Sens. 1; H334: $C \ge 0.1$ %STOT SE 3; H335: $C \ge 5$ %	≥0.1-<1%			

• 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:

Immediately remove any clothing soiled by the product.

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 rinse with water.

• After eye contact: Rinse opened eye for several minutes under running water.

· After swallowing: If symptoms persist consult doctor.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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

No further relevant information available.

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

• Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

(Contd. on page 3)

according to 1907/2006/EC, Article 31



Printing date 02.05.2023

Version number 24 (replaces version 23)

#### Trade name: 4CR 5120 1K PU-Scheibenkleber

(Contd. of page 2)

• 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.

• 6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.

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

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Contain and collect spillages with non-combustible absorbent materials (e.g. sand, earth, diatomaceous earth) and place in a suitable container.

Decontaminate immediately with suitable mixture (flammable):

- as such usable (inflammatory!):	·
water	45 Vol.%
ethanol or isopropanol	50 Vol.%
ammonia solution (Density= $0.88$ )	5 Vol.%
- alternatively (non-flammable):	
sodium carbonate	5 Vol.%
water	95 Vol.%

Add the same decontaminant to any residues and allow to stand for several days in an non-sealed container until no further reaction occurs. Once this stage is reached, close the container and dispose of in accordance with the waste regulations (see Section 13).

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

#### · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Persons with a history of asthma, allergies or chronic or recurrent respiratory diseases should only be employed in processes in which this product is used under appropriate medical supervision. • Information about fire - and explosion protection: No special measures required.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:

• Requirements to be met by storerooms and receptacles: No special requirements.

· Information about storage in one common storage facility:

Do not store together with reducing agents, heavy-metal compounds, acids and alkalis. Store away from foodstuffs.

• Further information about storage conditions:

Store in dry conditions.

Store separately from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohol and water.

• Storage class: 11

• 7.3 Specific end use(s) No further relevant information available.

(Contd. on page 4)

GB

# Safety data sheet according to 1907/2006/EC, Article 31



Printing date 02.05.2023

## Version number 24 (replaces version 23)

Trade name: 4CR 5120 1K PU-Scheibenkleber

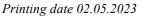
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SECI	TION 8: Exposure controls/personal protection
· 8.1 Co	ntrol parameters
· Ingrea	lients with limit values that require monitoring at the workplace:
1333-8	86-4 Carbon black
	Short-term value: 7 mg/m <sup>3</sup>
	Long-term value: 3.5 mg/m <sup>3</sup>
	-12-0 Di-"isononyl" phthalate
	Long-term value: 5 mg/m <sup>3</sup>
28182	-81-2 Hexamethylene diisocyanate, oligomers
	Short-term value: 0.5 mg/m <sup>3</sup>
	exposition evaluation valu TRGS 430 (EBW)
	8-8 4,4'-methylenediphenyl diisocyanate
	Short-term value: 0.07 mg/m <sup>3</sup>
	Long-term value: 0.02 mg/m <sup>3</sup>
	Sen; as -NCO
0	lients with biological limit values:
	8-8 4,4'-methylenediphenyl diisocyanate
BMGV	1 µmol creatinine/mol
	Medium: urine Sampling time: At the end of the period od exposure
	Parameter: isocyanate-derived diamine
4 1 1.	onal information: The lists valid during the making were used as basis.
hazara • <b>Gener</b> Keep a Immea Wash	rsonal protective equipment, including respiratory protecitve equipment, used to control exposure lous substances must be selected to meet the requirements of the COSHH Regulations. <b>al protective and hygienic measures:</b> tway from foodstuffs, beverages and feed. liately remove all soiled and contaminated clothing hands before breaks and at the end of work. <b>ratory protection:</b> AX
	In case of brief exposure or low pollution use respiratory filter device. In case of intensive longer exposure use self-contained respiratory protective device.
	<i>protection</i> ion of the glove material on consideration of the penetration times, rates of diffusion and lation
	Protective gloves (EN 374)
The gl	

application.

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Safety data sheet according to 1907/2006/EC, Article 31



Version number 24 (replaces version 23)



Trade name: 4CR 5120 1K PU-Scheibenkleber

(Contd. of page 4)

- GB

#### · Breakthrough time of glove material

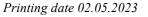
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• *Eye/face protection* Not required.

## SECTION 9: Physical and chemical properties

General Information	G 1:1
Physical state	Solid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling	· · · · · · · · · · · · · · · · · · ·
range	341 °C (28553-12-0 Di-"isononyl" phthalate)
Flammability	Not determined.
Lower and upper explosion limit	
Lower:	<0.1 Vol % (28553-12-0 Di-"isononyl" phthalate)
Upper:	0.2 Vol %
Flash point:	Not applicable.
Auto-ignition temperature:	>300 °C (DIN 51794, 1333-86-4 Carbon black)
Decomposition temperature:	Not determined.
рН	Not applicable.
Viscosity:	
Kinematic viscosity	Not applicable.
Dynamic at 20 °C:	150,000 mPas
Solubility	
water:	Insoluble.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 219 °C:	2.6 hPa (28553-12-0 Di-"isononyl" phthalate)
Density and/or relative density	
Density at 20 °C:	1.31 g/cm <sup>3</sup> (DIN 53217)
Relative density	Not determined.
Vapour density	Not applicable.
- ·	"P
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of health an	d
environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
VOC (EC)	0.00 %
Solids content (weight-%):	100.0 %
Change in condition	
Evaporation rate	Not applicable.
•	
Information with regard to physical hazard classe	Noid
Explosives	
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void

according to 1907/2006/EC, Article 31



Version number 24 (replaces version 23)



#### Trade name: 4CR 5120 1K PU-Scheibenkleber

		(Contd. of page 5
· Flammable solids	Void	
· Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit flamm	able	
gases in contact with water	Void	
• Oxidising liquids	Void	
• Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

#### 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 hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity 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.

#### · 11.2 Information on other hazards

#### · Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

#### · 12.1 Toxicity

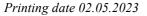
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- $\cdot$  12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

(Contd. on page 7)

GB

Safety data sheet according to 1907/2006/EC, Article 31



#### Version number 24 (replaces version 23)



(Contd. of page 6)

#### Trade name: 4CR 5120 1K PU-Scheibenkleber

· 12.7 Other adverse effects

- 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.

## **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.

· Uncleaned packaging:

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

## **SECTION 14:** Transport information

· 14.1 UN number or ID 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		
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No		
· 14.6 Special precautions for user	Not applicable.		
• 14.7 Maritime transport in bulk according to IMO instruments 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.

· National regulations:

· Additional classification according to Decree on Hazardous Materials, Annex II:

Class | Share in %

<1 Ι

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

(Contd. on page 8)

GB

according to 1907/2006/EC, Article 31



Printing date 02.05.2023

#### Version number 24 (replaces version 23)

Trade name: 4CR 5120 1K PU-Scheibenkleber

(Contd. of page 7)

#### **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. EUH204 Contains isocyanates. May produce an allergic reaction. · 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 relatif au transport international 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 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.