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

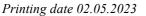
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SECI	TION 8: Exposure controls/personal protection
· 8.1 Co	ntrol parameters
· Ingrea	lients with limit values that require monitoring at the workplace:
1333-8	86-4 Carbon black
	Short-term value: 7 mg/m ³
	Long-term value: 3.5 mg/m ³
	-12-0 Di-"isononyl" phthalate
	Long-term value: 5 mg/m ³
28182	-81-2 Hexamethylene diisocyanate, oligomers
	Short-term value: 0.5 mg/m ³
	exposition evaluation valu TRGS 430 (EBW)
	8-8 4,4'-methylenediphenyl diisocyanate
	Short-term value: 0.07 mg/m ³
	Long-term value: 0.02 mg/m ³
	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 • Gener 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. al protective and hygienic measures: tway from foodstuffs, beverages and feed. liately remove all soiled and contaminated clothing hands before breaks and at the end of work. ratory protection: 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

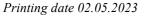
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• *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 ³ (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

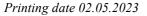
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- \cdot 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · 12.5 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		
 14.5 Environmental hazards: Marine pollutant: 	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.