according to 1907/2006/EC, Article 31

Revision: 03.05.2023

Printing date 03.05.2023

Version number 6 (replaces version 5)

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

- · 1.1 Product identifier
- · Trade name: 4CR 7220 2K-HS-Klarlack matt
- 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 Clear coating material, Varnish
- 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



Flam. Liq. 3 H226 Flammable liquid and vapour.



Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · 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





GHS02

GHS07

- · Signal word Warning
- · Hazard-determining components of labelling:

n-Butvl acetate

Hydrocarbons, C9, aromatics

Reaction mass of pentamethyl-piperidylsebacate

2,3-Epoxypropyl neodecanoate

· Hazard statements

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

(Contd. on page 2)

according to 1907/2006/EC, Article 31

Printing date 03.05.2023 Version number 6 (replaces version 5) Revision: 03.05.2023

Trade name: 4CR 7220 2K-HS-Klarlack matt

(Contd. of page 1) P102 Keep out of reach of children. P103 Read carefully and follow all instructions. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No P210 smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. P261 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P504+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

- · 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: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-Butyl acetate  The Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	25-50%
EC number: 918-668-5	Hydrocarbons, C9, aromatics  Tox. 1, H304; Aquatic  Chronic 2, H411; STOT SE 3, H335-H336, EUH066	5-<10%
EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	Xylene  ♠ Flam. Liq. 3, H226; ♦ STOT RE 2, H373; Asp. Tox. 1, H304;  ♠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2.5-<5%
EC number: 915-687-0	Reaction mass of pentamethyl-piperidylsebacate  Repr. 2, H361f; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1A, H317	≥0.25-<1%
CAS: 26761-45-5 EINECS: 247-979-2 Reg.nr.: 01-2119431597-33	2,3-Epoxypropyl neodecanoate  Muta. 2, H341; Aquatic Chronic 2, H411; Skin Sens. 1, H317	≥0.25-<1%

<sup>·</sup> 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.
- · 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.

  (Contd. on page 3)

i. on page 3

according to 1907/2006/EC, Article 31



Revision: 03.05.2023

Printing date 03.05.2023

Version number 6 (replaces version 5)

Trade name: 4CR 7220 2K-HS-Klarlack matt

(Contd. of page 2)

• 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

### <u>SECTION 5: Firefighting measures</u>

- · 5.1 Extinguishing media
- Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

### SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

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.

Prevent formation of aerosols.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 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: Store away from foodstuffs.
- · Further information about storage conditions: Keep container tightly sealed.
- · Storage class: 3
- · 7.3 Specific end use(s) No further relevant information available.

GB ·

according to 1907/2006/EC, Article 31



Revision: 03.05.2023

Printing date 03.05.2023

Version number 6 (replaces version 5)

Trade name: 4CR 7220 2K-HS-Klarlack matt

(Contd. of page 3)

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

	Ingredients with limit values that require monitoring at the workplace:				
	123-86-4 n-Butyl acetate				
		Short-term value: 966 mg/m³, 200 ppm			
		Long-term value: 724 mg/m³, 150 ppm			
	1330-20-7 Xylene				
	WEL Short-term value: 441 mg/m³, 100 ppm				
		Long-term value: 220 mg/m³, 50 ppm			
-		Sk; BMGV			

### · Ingredients with biological limit values:

#### 1330-20-7 Xylene

BMGV 650 mmol/mol creatinine

Medium: urine

Sampling time: post shift

Parameter: methyl hippuric acid

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

· Respiratory protection:



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.

#### · Hand protection

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves (EN 374)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

### · Material of gloves

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.

(Contd. on page 5)

according to 1907/2006/EC, Article 31



Printing date 03.05.2023

Version number 6 (replaces version 5)

Trade name: 4CR 7220 2K-HS-Klarlack matt

(Contd. of page 4)

· Eye/face protection



Tightly sealed goggles

### SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state

According to product specification · Colour:

· Odour: Characteristic · Odour threshold: Not determined.

Undetermined. · Melting point/freezing point:

· Boiling point or initial boiling point and boiling

124-128 °C (123-86-4 n-Butyl acetate) range

Flammable. · Flammability

· Lower and upper explosion limit

· Lower: 1.2 Vol % · Upper: 7.5 Vol %

24 °C (DIN EN ISO 1523:2002) · Flash point:

370 °C (DIN 51794) · Auto-ignition temperature: Not determined. · Decomposition temperature: Not determined.  $\cdot pH$ 

· Viscosity:

160 s (DIN 53211/4) · Kinematic viscosity at 20 °C · Dynamic: Not determined.

·Solubility

· water: Not miscible or difficult to mix.

Partition coefficient n-octanol/water (log value) Not determined. 10.7 hPa · Vapour pressure at 20 °C:

Density and/or relative density

1.052 g/cm³ (DIN EN ISO 2811-1) · Density at 20 °C:

Not determined. · Relative density Not determined. · Vapour density

· 9.2 Other information

· Appearance:

· Form: Fluid

· Important information on protection of health and

environment, and on safety.

· Ignition temperature: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of

explosive air/vapour mixtures are possible.

· Solvent content:

· VOC (EC) 47.72 % · Solids content (weight-%): 52.3 %

Change in condition

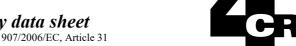
· Evaporation rate Not determined.

· Information with regard to physical hazard classes

Void · Explosives · Flammable gases Void · Aerosols Void

(Contd. on page 6)

according to 1907/2006/EC, Article 31



Revision: 03.05.2023

Printing date 03.05.2023

Version number 6 (replaces version 5)

Trade name: 4CR 7220 2K-HS-Klarlack matt

		(Contd. of page 5)
· Oxidising gases	Void	
· Gases under pressure	Void	
· Flammable liquids	Flammable liquid and vapour.	
· 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 flammable	•	
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: Carbon monoxide

### 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 an allergic skin reaction.
- · STOT-single exposure May cause drowsiness or dizziness.

### 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.
- 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
- · 12.7 Other adverse effects
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

(Contd. on page 7)

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



Revision: 03.05.2023

Printing date 03.05.2023

Version number 6 (replaces version 5)

Trade name: 4CR 7220 2K-HS-Klarlack matt

Harmful to aquatic organisms

(Contd. of page 6)

### 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.

14.1 UN number or ID number	
ADR, IMDG, IATA	UN1263
14.2 UN proper shipping name	
ADR	UN1263 PAINT
IMDG, IATA	PAINT
14.3 Transport hazard class(es)	
ADR	
3	
Class	2 (E1) Elammable liquida
Ciass Label	3 (F1) Flammable liquids. 3
IMDG, IATA	
3	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards:	No
Marine pollutant:	
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code): EMS Number:	30 F-E,S-E
EMS Number: Stowage Category	<i>F-E,<u>S-E</u></i> А
14.7 Maritime transport in bulk according to IM	
instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Transport category	3

according to 1907/2006/EC, Article 31



Revision: 03.05.2023

Printing date 03.05.2023

Version number 6 (replaces version 5)

Trade name: 4CR 7220 2K-HS-Klarlack matt

	(Contd. of pa	age '
· Remarks:	<i>≤ 450 l: -</i>	
·IMDG		
· Limited quantities (LQ)	5L	
Remarks:	≤ 30 l: -	
· UN "Model Regulation":	UN 1263 PAINT, 3, III	

### 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.
- · Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- · National regulations:
- · Additional classification according to Decree on Hazardous Materials, Annex II:

Class	Share in %
NK	25-50

· 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

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H341 Suspected of causing genetic defects.
- H361f Suspected of damaging fertility.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

### · 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:

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)

(Contd. on page 9)

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

Revision: 03.05.2023

Printing date 03.05.2023

Version number 6 (replaces version 5)

Trade name: 4CR 7220 2K-HS-Klarlack matt

(Contd. of page 8)

VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 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 Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1A: Skin sensitisation - Category 1A Muta. 2: Germ cell mutagenicity – Category 2 Repr. 2: Reproductive toxicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Asp. Tox. 1: Aspiration hazard - Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

· \* Data compared to the previous version altered.