**Accr** *Revision: 02.05.2023* 

Printing date 02.05.2023

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

## · 1.1 Product identifier

· Trade name: <u>4CR 7100 2K-MS-Klarlack 2:1</u>

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 Paint

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



H226 Flammable liquid and vapour.



Flam. Liq. 3

Skin Sens. 1H317 May cause an allergic skin reaction.STOT SE 3H336 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* 



· Signal word Warning

Hazard-determining components of labelling:
n-Butyl 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.

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P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
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.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Additional informa	ntion:
FIJH066 Repeated	exposure may cause skin dryness or cracking

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.

CAS: 123-86-4	n-Butyl acetate	25-50%
EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	� Flam. Liq. 3, H226;	
CAS: 64742-95-6 EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Hydrocarbons, C9, aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336, EUH066	5-<10%
CAS: 112-07-2 EINECS: 203-933-3 Reg.nr.: 01-2119475112-47	2-Butoxyethyl acetate	5-<10%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	<i>Xylene</i> ♦ <i>Flam. Liq. 3, H226;</i> ♦ <i>STOT RE 2, H373; Asp. Tox. 1,</i> <i>H304;</i> ♦ <i>Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2,</i> <i>H315; Eye Irrit. 2, H319; STOT SE 3, H335</i>	2.5-<5%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35	Ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	<2.5%
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	<i>≥</i> 0.25-<1%
CAS: 1065336-91-5 EC number: 915-687-0 Reg.nr.: 01-2119491304-40	Reaction mass of pentamethyl-piperidylsebacate Repr. 2, H361f; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; (1) Skin Sens. 1A, H317	≥0.1-<0.25%

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Safety data sheet

according to 1907/2006/EC, Article 31



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## **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.
- 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:
- 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.
- wear protective equipment. Keep unprotected p
- 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.

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according to 1907/2006/EC, Article 31



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• Further information about storage conditions: Keep container tightly sealed.

· Storage class: 3

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

# 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

WEL Short-term value: 966 mg/m<sup>3</sup>, 200 ppm Long-term value: 724 mg/m<sup>3</sup>, 150 ppm

## 112-07-2 2-Butoxyethyl acetate

WEL Short-term value: 332 mg/m<sup>3</sup>, 50 ppm Long-term value: 133 mg/m<sup>3</sup>, 20 ppm Sk

#### 1330-20-7 Xylene

WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppm Long-term value: 220 mg/m<sup>3</sup>, 50 ppm Sk; BMGV

#### 100-41-4 Ethylbenzene

WEL Short-term value: 552 mg/m<sup>3</sup>, 125 ppm Long-term value: 441 mg/m<sup>3</sup>, 100 ppm Sk

# 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.

- · 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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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.

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<sup>· 8.2</sup> Exposure controls

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#### · Material of gloves

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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/face protection

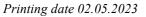


Tightly sealed goggles

## **SECTION 9:** Physical and chemical properties

• 9.1 Information on basic physical and chemical p	properties
· General Information	
· Physical state	Fluid
· 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	124-128 °C (123-86-4 n-Butyl acetate)
· Flammability	Flammable.
· Lower and upper explosion limit	
· Lower:	1.2 Vol %
· Upper:	7.5 Vol %
· Flash point:	24 °C (DIN 53213)
• Auto-ignition temperature:	370 °C (DIN 51794)
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity at 20 °C	70-90 s (DIN 53211/4)
· Dynamic:	Not determined.
· Solubility	
· water:	Not miscible or difficult to mix.
• Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	10.7 hPa
• Density and/or relative density	10.7 m w
· Density at 20 °C:	0.992 g/cm <sup>3</sup> (DIN 53217)
· Relative density	Not determined.
· Vapour density	Not determined.
* *	Not determined.
· 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 is not explosive. However, formation of
•	explosive air/vapour mixtures are possible.
· Solvent content:	
· VOC (EC)	52.14 %
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Solids content (weight-%):	47.9 %	
Change in condition		
Evaporation rate	Not determined.	
Information with regard to physical hazard	classes	
Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
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 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: Carbon monoxide

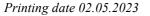
## **SECTION 11: Toxicological information**

- · 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.

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- · 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. Harmful to aquatic organisms

## **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 14.3 Transport hazard class(es)	PAINT
ADR	
Class	3 (F1) Flammable liquids.
Label IMDG, IATA	,
Class	3 Flammable liquids.
Label	3
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	30 E E C E
EMS Number: Stowage Category	<i>F-E,<u>S-E</u> A</i>

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· 14.7 Maritime transport in bulk accordi	ng to IMO	
instruments	Not applicable.	
Transport/Additional information:		
ADR		
Limited quantities (LQ)	5L	
Transport category	3	
Tunnel restriction code	D/E	
Remarks:	≤ 450 l: 2.2.3.1.5 ADR	
IMDG		
Limited quantities (LQ)	5L	
Remarks:	<i>≤ 30 l: 2.2.3.5 IMDG-Code</i>	
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
- $\cdot$  Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- $\cdot$  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	50-100

· 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.

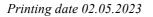
#### Relevant phrases

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- 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.*

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