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Safety data sheet according to 1907/2006/EC, Article 31 Revision: 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: 4CR 4100 2K-Washprimer 2:1

· 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 Priming

· 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			
flame			
Flam. Liq. 3	H226	Flammable liquid and vapour.	
health h	azard		
STOT RE 2	<i>H373</i>	May cause damage to organs through prolonged or repeated exposure.	
corrosic	on		
Eye Dam. 1	H318	Causes serious eye damage.	
environ	ment		
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.	
Skin Irrit. 2	H315	Causes skin irritation.	
Skin Sens. 1	H317	May cause an allergic skin reaction.	
STOT SE 3	Н335-Н336	May cause respiratory irritation. May cause drowsiness or dizziness.	
· 2.2 Label element			
		tion (EC) No 1272/2008	
ine proauct is clas	ssified and la	belled according to the GB CLP regulation. (Contd. on page 2)) 3B

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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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

· Dangerous components: CAS: 1330-20-7 25-50% Xvlene EINECS: 215-535-7 🚸 Flam. Liq. 3, H226; 🚸 STOT RE 2, H373; Asp. Tox. 1, H304; (1) Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. *Reg.nr.: 01-2119488216-32* 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 CAS: 78-83-1 10-25% Isobutanol ♦ Flam. Liq. 3, H226; ♦ Eye Dam. 1, H318; ♦ Skin Irrit. 2, H315; STOT SE 3, H335-H336 EINECS: 201-148-0 Reg.nr.: 01-2119484609-23 (Contd. on page 3)

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		(Contd. of page 2)
CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43	ethanol Flam. Liq. 2, H225; $$ Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: $C \ge 50 \%$	10-25%
CAS: 25068-38-6	Bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight 700-1100) Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH205	2.5-<10%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-Butyl acetate Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	5-<10%
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-<10%
CAS: 7779-90-0 EINECS: 231-944-3 Reg.nr.: 01-2119485044-40	Trizinc bis(orthophosphate) Aquatic Acute 1, H400; Aquatic Chronic 1, H410	2.5-<10%
CAS: 162627-17-0 EC number: 605-296-0 Reg.nr.: 01-2119970640-38	Fatty acids, C18-unsatd., dimers, reaction products with N,N- dimethyl-1,3-propanediamine and1,3-propanediamine Skin Sens. 1A, H317	≥0.1-<1%
CAS: 1314-13-2 EINECS: 215-222-5 Reg.nr.: 01-2119463881-32	zinc oxide Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<i>≥</i> 0.025-<0.25%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	Methyl ethyl ketone Flam. Liq. 2, H225;	<1%

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. Then consult a doctor.

• 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

During heating or in case of fire poisonous gases are produced.

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• 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 Mount respiratory protective device. 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). Use neutralising agent. 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. Keep respiratory protective device available.*

• 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.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

1330-20-7 Xylene

WEL Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV

78-83-1 Isobutanol

WEL Short-term value: 231 mg/m³, 75 ppm Long-term value: 154 mg/m³, 50 ppm

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A-17-5 ethanol EL Long-term value: 1920 mg/m³, 1000 ppm 23-86-4 n-Butyl acetate EL Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm	
P3-86-4 n-Butyl acetate EL Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm	
EL Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm	
Long-term value: 724 mg/m ³ , 150 ppm	
00-41-4 Ethylbenzene	
EL Short-term value: 552 mg/m³, 125 ppm	
Long-term value: 441 mg/m ³ , 100 ppm	
Sk	
3-93-3 Methyl ethyl ketone	
EL Short-term value: 899 mg/m ³ , 300 ppm	
Long-term value: 600 mg/m ³ , 200 ppm	
Sk, BMGV	
gredients with biological limit values:	
330-20-7 Xylene	
MGV 650 mmol/mol creatinine	
Medium: urine	
Sampling time: post shift	
Parameter: methyl hippuric acid	
3-93-3 Methyl ethyl ketone	
MGV 70 µmol/L	
Medium: urine Sampling time: post shift	
Parameter: butan-2-one	
<i>Iditional information:</i> The lists valid during the making were used as basis.	
2 Exposure controls opropriate engineering controls No further data; see section 7.	
dividual protection measures, such as personal protective equipment	
eneral protective and hygienic measures:	
eep away from foodstuffs, beverages and feed.	
mediately remove all soiled and contaminated clothing	
ash hands before breaks and at the end of work.	
ore protective clothing separately.	
void contact with the eyes.	
void contact with the eyes and skin. espiratory protection:	
In case of brief exposure or low pollution use respiratory filter device. In case	ase of intensive o
longer exposure use self-contained respiratory protective device.	use of intensive o
and protection	
ue to missing tests no recommendation to the glove material can be given for the produc	ct/ the preparatior
e chemical mixture.	
election of the glove material on consideration of the penetration times, rates of	diffusion and th
gradation	



Protective gloves (EN 374)

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



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· 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.

· 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	78 °C
· Flammability	Flammable.
· Lower and upper explosion limit	
· Lower:	1.1 Vol %
· Upper:	15 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	75 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:	59 hPa
• Density and/or relative density	07 m w
Density at 20 °C:	0.987 g/cm ³ (DIN 53217)
· Relative density	Not determined.
· Vapour density	Not determined.
X V	
• 9.2 Other information	
· Appearance:	Fluid
· Form:	
Important information on protection of health an	a di
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.
· Voluent content.	
· Solvent content: · VOC (EC)	65.35 %

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· Solids content (weight-%):	34.6 %	
· 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: Possible in traces. Nitrogen oxides Hydrogen chloride (HCl) 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.

· LD/LC50 values relevant for classification:		
1330-20-7 Xylene		
		5,251 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	29 mg/l (rat)
Skin corrosion/irritation Causes skin irritation.		
Series and down a climitation Causes series and down and		

· Serious eye damage/irritation Causes serious eye damage.

· Respiratory or skin sensitisation May cause an allergic skin reaction.

• STOT-single exposure May cause respiratory irritation. May cause drowsiness or dizziness.

• STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

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· 11.2 Information on other hazards

• Endocrine disrupting properties

78-93-3 Methyl ethyl ketone

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: Toxic for 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.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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

Also poisonous for fish and plankton in water bodies.

Toxic for 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	UNI 263 PAINT, ENVIRONMENTALLY HAZARDOUS
·IMDG	PAINT (Trizinc bis(orthophosphate)), MARIN
	POLLUTANT
·IATA	PAINT

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List II



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14.3 Transport hazard class(es)	
· ADR	
Class Label	3 (F1) Flammable liquids. 3
· IMDG	
· Class	3 Flammable liquids.
Label IATA	3
Class Label	3 Flammable liquids. 3
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards:	Product contains environmentally hazardous substance
Marine pollutant:	Trizinc bis(orthophosphate) No
	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code): EMS Number:	30 F-E,S-E
Stowage Category	A = A
14.7 Maritime transport in bulk according to IM	0
instruments	Not applicable.
Transport/Additional information:	
· Limited quantities (LQ)	5L
Transport category	3
• Tunnel restriction code • Remarks:	$D/E \le 5 \ l: \ 2.2.3.1.5 \ ADR$
· IMDG	
Limited quantities (LQ)	5L
Remarks:	$\leq 5 l: 2.2.3.1.5 IMDG$
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· UN "Model Regulation":

UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

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

E2 Hazardous to the Aquatic Environment

- P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · National regulations:
- Additional classification according to Decree on Hazardous Materials, Annex II:

Class	Share in %
III	<1
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.
- 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.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- 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.
- H412 Harmful to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.

EUH205 Contains epoxy constituents. 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)

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 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) LCS0: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 1 Eye Dam. 1: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 	(Contd. of page 10)
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
1 1 0 1	
0,	
0,	
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.	