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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: 4CR 4330 1K-Kunststoff-Primer · 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 Filler and surfacer $\cdot$ 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: 4CR Vertriebsgesellschaft mbH **Oberer Sommerfeldweg 2** D-94469 Deggendorf Tel.: +49 (0) 40 69 60 99 315 Fax: +49 (0) 40 69 60 99 316 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 GHS02 flame Flam. Liq. 2 H225 Highly flammable liquid and vapour. GHS08 health hazard STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. GHS07 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation. STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. Aquatic Chronic 3 H412 · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008

- The product is classified and labelled according to the CLP regulation.
- · Hazard pictograms

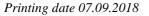


· Signal word Danger

• *Hazard-determining components of labelling: xylene ethyl acetate* 

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	methylpentan-2-one
1,2,4-trimeth	
· Hazard state	
H225	Highly flammable liquid and vapour.
H315 (	Causes skin irritation.
H319 (	Causes serious eye irritation.
H335-H336 I	May cause respiratory irritation. May cause drowsiness or dizziness.
H373 I	May cause damage to organs through prolonged or repeated exposure.
H304 I	May be fatal if swallowed and enters airways.
H412	Harmful to aquatic life with long lasting effects.
· Precautional	ry statements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303+P361-	+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351-	+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
$\cdot$ 2.3 Other has	zards
· Results of Pl	BT and vPvB assessment
· PBT: Not ap	plicable.

• **vPvB:** Not applicable.

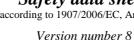
#### **SECTION 3: Composition/information on ingredients**

· 3.2 Chemical characterisation: Mixtures

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

#### · Dangerous components: CAS: 141-78-6 25-50% ethyl acetate EINECS: 205-500-4 🚸 Flam. Liq. 2, H225; 🚺 Eye Irrit. 2, H319; STOT SE 3, H336 Reg.nr.: 01-2119475103-46 CAS: 1330-20-7 xylene 25-50% EINECS: 215-535-7 🚸 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 Reg.nr.: 01-2119488216-32 Irrit. 2, H319; STOT SE 3, H335 CAS: 64742-95-6 Solvent naphtha (petroleum), light arom. 2.5-<10% EINECS: 265-199-0 🚸 Flam. Liq. 3, H226; 🚸 Asp. Tox. 1, H304 CAS: 123-42-2 4-hydroxy-4-methylpentan-2-one 2.5-<10% EINECS: 204-626-7 🚯 Flam. Liq. 3, H226; 🕕 Eye Irrit. 2, H319; STOT SE 3, H335 Reg.nr.: 01-2119473975-21 2.5-<10% CAS: 100-41-4 ethylbenzene EINECS: 202-849-4 🚸 Flam. Liq. 2, H225; 🚸 STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Reg.nr.: 01-2119489370-35 Aquatic Chronic 3, H412 1,2,4-trimethylbenzene CAS: 95-63-6 2.5-<10% Flam. Liq. 3, H226; Aquatic Chronic 2, H411; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 EINECS: 202-436-9 (Contd. on page 3)

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• Additional information: For the wording of the listed hazard phrases refer to section 16.

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# **SECTION 4:** First aid measures

• 4.1 Description of first aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

• After skin contact: Immediately wash with water and soap and rinse thoroughly.

· After eve contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Seek immediate medical advice.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.
- · Information for doctor:

# **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · 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: Mouth respiratory protective device.

# **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 item 13. Ensure adequate ventilation.
- Do not flush with water or aqueous cleansing agents
- · 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.

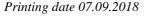
# **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling

Keep away from heat and direct sunlight. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

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· 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: Store in a cool location.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· Storage class: 3

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

# SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:	
141-78-6 ethyl acetate	
WEL Short-term value: 400 ppm	
Long-term value: 200 ppm	
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	
123-42-2 4-hydroxy-4-methylpentan-2-one	
WEL Short-term value: 362 mg/m <sup>3</sup> , 75 ppm	
Long-term value: 241 mg/m <sup>3</sup> , 50 ppm	
100-41-4 ethylbenzene	
WEL Short-term value: 552 mg/m³, 125 ppm	
Long-term value: 441 mg/m <sup>3</sup> , 100 ppm	
Sk	
95-63-6 1,2,4-trimethylbenzene	
WEL Long-term value: 125 mg/m <sup>3</sup> , 25 ppm	
ILV	
· 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	
· Personal protective equipment:	
General protective and hygienic measures:	
Keep away from foodstuffs, beverages and feed.	
Immediately remove all soiled and contaminated clothing	
Wash hands before breaks and at the end of work.	
Do not inhale gases / fumes / aerosols.	
Avoid contact with the eyes and skin.	

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#### · 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.

#### · Protection of hands:

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



Protective gloves (EN 374)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· 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 protection:



Tightly sealed goggles

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

- · 9.1 Information on basic physical and chemical properties
- · General Information

· Appearance: Form:	Fluid	
Colour:	According to product specification	
· Odour:	Characteristic	
· Odour threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range:	77°C	
· Flash point:	10°C (DIN 53213)	
· Flammability (solid, gas):	Not applicable.	
· Ignition temperature:	430°C (DIN 51794)	
· Decomposition temperature:	Not determined.	
· Auto-ignition temperature:	Product is not selfigniting.	
		(Contd. on page 6

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· Explosive properties:	Product is not explosive. However, formation of explosive air vapour mixtures are possible.
· Explosion limits:	
Lower:	1.1 Vol %
Upper:	11.5 Vol %
· Vapour pressure at 20°C:	97 hPa
Density at 20°C:	0.912 g/cm <sup>3</sup> (DIN 53217)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 20°C:	13 s (DIN 53211/4)
· Solvent content:	
VOC (EC)	95.54 %
Solids content (weight-%):	4.3 %
• 9.2 Other information	No further relevant information available.

# 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 toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values	relevant for	classification:	

1330-20-1	7 xylene	
Oral	LD50	5,251 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	e LC50/4 I	n 29 mg/l (rat)
64742-95	-6 Solvent	naphtha (petroleum), light arom.
Oral	LD50	>6,800 mg/kg (rat)
Dermal	LD50	>3,400 mg/kg (rab)
· Primary i	irritant eff	ect:
· Skin corr	osion/irrit	ation

• Skin corrosion/irritation Causes skin irritation.

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# $\cdot$ Serious eye damage/irritation

- Causes serious eye irritation. • **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- · 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.
- · Aspiration hazard
- May be fatal if swallowed and enters airways.

# 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.
- · Ecotoxical 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 • 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

# **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.

· European waste catalogue

08 01 11\* waste paint and varnish containing organic solvents or other hazardous substances

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

· 14.1 UN-Number		
· ADR, IMDG, IATA	UN1263	
· 14.2 UN proper shipping name		
$\cdot ADR$	UN1263 PAINT	

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· IMDG, IATA	PAINT	
· 14.3 Transport hazard class(es)		
·ADR		
· Class	3 (F1) Flammable liquids.	
· Label	3	
· IMDG, IATA		
· Class	3 Flammable liquids.	
· Label	3	
· 14.4 Packing group · ADR, IMDG, IATA	II	
· 14.5 Environmental hazards: · Marine pollutant:	No	
$\cdot$ 14.6 Special precautions for user	Warning: Flammable liquids.	
· Danger code (Kemler):	33	
· EMS Number:	F-E, <u>S-E</u>	
· Stowage Category	B	
• 14.7 Transport in bulk according to Anna Marpol and the IBC Code	ex II of Not applicable.	
· Transport/Additional information:		
$\cdot ADR$		
· Transport category	2	
• Tunnel restriction code	D/E	
·IMDG		
$\cdot$ Limited quantities (LQ)	5L	
· UN "Model Regulation":	UN 1263 PAINT, 3, 11	

# **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
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· National regulations:

Class	Share in %
NK	50-100

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**SECTION 16: Other information** 

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

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#### 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. H319 Causes serious eve 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.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

# · 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 européen sur le transport 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)

LC50: 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 2

Eye Irrit. 2: Serious eye damage/eye irritation - 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 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.