Xylene

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



Printing date 19.02.2020

Version number 1

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

· 1.1 Product identifier

- · Trade name: 4CR 73-135 EP 2K Topcoat glossy/90
- · 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

 \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)

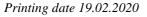
SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification acco	ording to Reg	ulation (EC) No 1272/2008
GHS02 j	flame	
Flam. Liq. 3	H226	Flammable liquid and vapour.
GHS08	health hazara	
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
GHS07		
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye 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.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.
	ng to Regulat ssified and lal s	ion (EC) No 1272/2008 belled according to the CLP regulation.
· Signal word Warn	ing	
· Hazard-determinin	ng componen	ts of labelling: poxy resin (number average molecular weight 700-1100)

(Contd. on page 2)

⁻ GB



Version number 1



GB

Trade name: 4CR 73-135 EP 2K Topcoat glossy/90

(Contd. of page 1)	
-Methoxy-1-methylethyl acetate	
lydrocarbons, C9, aromatics	
lazard statements	
I226 Flammable liquid and vapour.	
I315 Causes skin irritation.	
I319 Causes serious eye irritation.	
I317 May cause an allergic skin reaction.	
I335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.	
<i>May cause damage to organs through prolonged or repeated exposure.</i>	
I412 Harmful to aquatic life with long lasting effects.	
Precautionary statements	
P101 If medical advice is needed, have product container or label at hand.	
2102 Keep out of reach of children.	
P103 Read label before use.	
2210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
260 Do not breathe dust/fume/gas/mist/vapours/spray.	
280 Wear protective gloves/protective clothing/eye protection/face protection.	
2303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	•
2501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
dditional information:	
UH205 Contains epoxy constituents. May produce an allergic reaction.	
.3 Other hazards	
esults of PBT and vPvB assessment	
BT: Not applicable.	

· 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: 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	25-50%
CAS: 1330-20-7 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	≥10-≤20%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-Methoxy-1-methylethyl acetate Flam. Liq. 3, H226; STOT SE 3, H336	2.5-<10%
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	5-<10%

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 19.02.2020

Version number 1

Trade name: 4CR 73-135 EP 2K Topcoat glossy/90

	(0	Contd. of page 2)
CAS: 78-93-3	methyl ethyl ketone	2.5-<10%
EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	(Flam. Liq. 2, H225; (Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 100-41-4	ethylbenzene	<2.5%
EINECS: 202-849-4 Reg.nr.: 01-2119489370-35	 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 	
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-Butyl acetate Flam. Liq. 3, H226; (I) STOT SE 3, H336	1-<2.5%
CAS: 85711-46-2	Fatty acids, C14-18 and C16-18-unsatd., maleated	≥0.1-<1%
EINECS: 288-306-2 Reg.nr.: 01-2119976378-19	(1) Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317	

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:

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 and to be sure call for a doctor.

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

• After skin contact: Generally the product does not irritate the skin.

· After eye contact:

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

· After swallowing: If symptoms persist consult doctor.

- 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.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 19.02.2020

Version number 1

Trade name: 4CR 73-135 EP 2K Topcoat glossy/90

(Contd. of page 3)

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

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.

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:

1330-20-7 XyleneWELShort-term value: 441 mg/m³, 100 ppm
Long-term value: 220 mg/m³, 50 ppm
Sk; BMGV

108-65-6 2-Methoxy-1-methylethyl acetate

WEL Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk

78-93-3 methyl ethyl ketone

WEL Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV

100-41-4 ethylbenzene

WEL Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm Sk

123-86-4 n-Butyl acetate

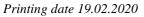
WEL Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm

(Contd. on page 5)

GB -

Safety data sheet

according to 1907/2006/EC, Article 31



Version number 1

Trade name: 4CR 73-135 EP 2K Topcoat glossy/90

		(Contd. of pag
Ingred	lients with biological limit values:	
1330-2	20-7 Xylene	
BMGV	650 mmol/mol creatinine	
	Medium: urine	
	Sampling time: post shift	
	Parameter: methyl hippuric acid	
78-93-	3 methyl ethyl ketone	
BMGV	7 70 μmol/L	
	Medium: urine	
	Sampling time: post shift	
	Parameter: butan-2-one	
Additie	onal 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.
- · 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



ge 4)

(Contd. on page 6)



Printing date 19.02.2020

Version number 1

Trade name: 4CR 73-135 EP 2K Topcoat glossy/90

(Contd. of page 5)

9.1 Information on basic physical and ch General Information	nemical properties
· Appearance:	
Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
· Change in condition	The destauring d
Melting point/freezing point: Initial boiling point and boiling range:	Undetermined.
Flash point:	24 °C (DIN 53213)
Flammability (solid, gas):	Not applicable.
Ignition temperature:	315 °C (DIN 51794)
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air vapour mixtures are possible.
Explosion limits:	
Lower:	1.1 Vol %
Upper:	7 Vol %
Vapour pressure at 20 °C:	6.7-8.2 hPa
Density at 20 °C:	1.225 g/cm ³ (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:	75 s (DIN 53211/4)
· Solvent content: VOC (EC)	38.62 %
Solids content (weight-%):	61.4 %
• 9.2 Other information	<i>No further relevant information available.</i>

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

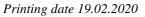
• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- · 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.

(Contd. on page 7)

GB



Version number 1



Trade name: 4CR 73-135 EP 2K Topcoat glossy/90

(Contd. of page 6)

· 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 toxicological effects 	٠j	11.1	In	form	ation	on	toxicol	logical	effects
---	----	------	----	------	-------	----	---------	---------	---------

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

	1330-20-7	Xylene	
Γ	Oral	LD50	5,251 mg/kg (rat)
	Dermal	LD50	>5,000 mg/kg (rabbit)
	Inhalative	LC50/4 h	29 mg/l (rat)
Γ	64742-95-	6 Hydroca	rbons, C9, aromatics
	Oral	LD50	>2,000 mg/kg (rat)
	Dermal	LD50	>2,000 mg/kg (rabbit)
	· Primary ir	ritant effe	<i>ct</i> :
	 Skin corro 		
	Causes ski	n irritation	·
	· Serious ey	e damage/i	irritation
	Causes ser	ious eye ir	ritation.
	· Respirator	y or skin s	ensitisation
	May cause	an allergi	c skin reaction.
	· CMR effec	ets (carcino	ogenity, mutagenicity and toxicity for reproduction)
	· Germ cell	mutagenic	ity Based on available data, the classification criteria are not met.

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

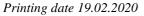
SECTION 12: Ecological information

· 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

(Contd. on page 8)

GB



Version number 1



Trade name: 4CR 73-135 EP 2K Topcoat glossy/90

· 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 ADR	UN1263 PAINT	
IMDG, IATA	PAINT	
14.3 Transport hazard class(es)		
ADR		
Class Label	3 (F1) Flammable liquids. 3	
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.	
Danger code (Kemler):	30	
EMS Number:	<i>F-E</i> , <u><i>S-E</i></u>	
Stowage Category	A	
14.7 Transport in bulk according to Ann Marpol and the IBC Code	ex II of Not applicable.	

(Contd. of page 7)

CCR *Revision: 19.02.2020*

Printing date 19.02.2020

Version number 1

Trade name: 4CR 73-135 EP 2K Topcoat glossy/90

		(Contd. of page 8
· Transport/Additional information:		
· ADR		
· Transport category	3	
• Tunnel restriction code	D/E	
· Remarks:	≤ 450 l: 2.2.3.1.5 ADR	
· IMDG		
· Limited quantities (LQ)	5L	
· Remarks:	≤ 5 l: 2.2.3.1.5 IMDG	
· 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
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· National regulations:

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

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.

- 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.

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)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

(Contd. on page 10)

GB ·

A *Revision: 19.02.2020*

Printing date 19.02.2020

Version number 1

Trade name: 4CR 73-135 EP 2K Topcoat glossy/90

	(Contd. of page 9)
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	
<i>Eye Irrit. 2: Serious eye damage/eye irritation – Category 2</i>	
Skin Sens. 1: Skin sensitisation – Category 1	
Skin Sens. 1B: Skin sensitisation – Category 1B	
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	
	GB -