according to 1907/2006/EC, Article 31

4cR

Revision: 03.12.2014

Printing date 10.12.2014

Version number 16

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

- · 1.1 Product identifier
- · Trade name: 4CR 0505 2K-Acrylverdünnung
- · 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 Thinner, Diluent
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

4CR Vertriebsgesellschaft mbH

Oberer Sommerfeldweg 2

94469 Deggendorf

Tel.: + 49 (0) 48 41-6650-15

Fax: + 49 (0) 48 41-6650-16

e-Mail: order@4cr.de

· 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 H336 May cause drowsiness or dizziness.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R20/21: Harmful by inhalation and in contact with skin.



Xi; Irritant

R38: Irritating to skin.



F; Highly flammable

R11: Highly flammable.

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

(Contd. on page 2)

according to 1907/2006/EC, Article 31

Version number 16 Revision: 03.12.2014

Trade name: 4CR 0505 2K-Acrylverdünnung

(Contd. of page 1)

· 2.2 Label elements

Printing date 10.12.2014

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms







GHS02

GHS07

GHS08

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

xylene

n-butyl acetate

acetone

Ethylbenzene

· Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

· Precautionary 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/sparks/open flames/hot surfaces. - No smoking. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P303+P361+P353 IF ON SKIN (or hair): Remove/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.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- \cdot **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- $\cdot \textbf{\textit{Description:}} \ \textit{Mixture of substances listed below with nonhazardous additions.}$

(Contd. on page 3)

according to 1907/2006/EC, Article 31



Revision: 03.12.2014

Printing date 10.12.2014

Version number 16

Trade name: 4CR 0505 2K-Acrylverdünnung

	(Co	ontd. of pag
Dangerous components:		
	n-butyl acetate R10-66-67 (b) Flam. Liq. 3, H226; (l) STOT SE 3, H336	25-509
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	xylene Xn R20/21; Xi R38 R10 ♦ 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	25-509
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	acetone Xi R36; F R11 R66-67 Flam. Liq. 2, H225; Lege Irrit. 2, H319; STOT SE 3, H336	15-<20
CAS: 100-41-4 EINECS: 202-849-4	Ethylbenzene Xn R20; F R11 Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	3-<109

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 eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- $\cdot \textbf{After swallowing:} \ Seek \ immediate \ medical \ advice.$
- 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, 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.

(Contd. on page 4)

- GB

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according to 1907/2006/EC, Article 31

4cR

Revision: 03.12.2014

Printing date 10.12.2014

Version number 16

Trade name: 4CR 0505 2K-Acrylverdünnung

(Contd. of page 3)

· 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.

· 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.
- $\cdot \textit{Further information about storage conditions:} \\$

Keep container tightly sealed.

 $Store\ in\ cool,\ dry\ conditions\ in\ well\ sealed\ receptacles.$

- · Storage class: 3
- \cdot 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

· Ingre	Ingredients with limit values that require monitoring at the workplace:			
123-8	123-86-4 n-butyl acetate			
WEL	Short-term value: 966 mg/m³, 200 ppm			
	Long-term value: 724 mg/m³, 150 ppm			
1330-	1330-20-7 xylene			
WEL	Short-term value: 441 mg/m³, 100 ppm			
	Long-term value: 220 mg/m³, 50 ppm			
	Sk; BMGV			
67-64	67-64-1 acetone			
WEL	Short-term value: 3620 mg/m³, 1500 ppm			
	Long-term value: 1210 mg/m³, 500 ppm			

(Contd. on page 5)

according to 1907/2006/EC, Article 31

4cR

Printing date 10.12.2014

Version number 16

Trade name: 4CR 0505 2K-Acrylverdünnung

(Contd. of page 4)

Revision: 03.12.2014

100-41-4 Ethylbenzene

WEL Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 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.
- · 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.

Avoid contact with the skin.

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

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.

· Penetration 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

– GI

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



Revision: 03.12.2014

Printing date 10.12.2014 Version number 16

Trade name: 4CR 0505 2K-Acrylverdünnung

(Contd. of page 5)

SECTION 9: 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/Melting range: Undetermined.

Boiling point/Boiling range: 55 °C

· Flash point: < 0 °C (DIN 53213)

· Flammability (solid, gaseous): Not applicable.

370 °C (DIN 51794) · Ignition temperature:

· Decomposition temperature: Not determined.

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapour

mixtures are possible.

· Explosion limits:

Lower: 1.1 Vol % 13.0 Vol % Upper:

· Vapour pressure at 20 °C: 233 hPa

· Density at 20 °C: 0.861 g/cm³ (DIN 53217)

Not determined. · Relative density · Vapour density Not determined. · Evaporation rate Not determined.

· Solubility in / Miscibility with

Not miscible or difficult to mix. water:

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined. Kinematic at 20 °C: 12 s (DIN 53211/4)

· Solvent content:

100.00 % VOC(EC)

· 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- · 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)

according to 1907/2006/EC, Article 31

CR

Revision: 03.12.2014

Printing date 10.12.2014

Version number 16

Trade name: 4CR 0505 2K-Acrylverdünnung

(Contd. of page 6)

· 10.6 Hazardous decomposition products: Carbon monoxide

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values relevant for classification:

1330-20-7 xylene

Oral | LD50 | 8700 mg/kg (rat)

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eve: No irritating effect.
- · Sensitisation: No sensitising effects known.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful Irritant

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.
- · 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.

- · 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

14 06 03* other solvents and solvent mixtures

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

-GB

(Contd. on page 8)

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



Printing date 10.12.2014 Version number 16 Revision: 03.12.2014

Trade name: 4CR 0505 2K-Acrylverdünnung

(Contd. of page 7)

14.1 UN-Number	
ADR, IMDG, IATA	UN1263
14.2 UN proper shipping name	
ADR	1263 PAINT RELATED MATERIAL, special provisio 640D
IMDG, IATA	PAINT RELATED MATERIAL
14.3 Transport hazard class(es)	
ADR	
3	
Class	3 (F1) Flammable liquids.
Label	3
IMDG, IATA	
3	
Class	3 Flammable liquids.
Label	3
14.4 Packing group ADR, IMDG, IATA	II
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler): EMS Number:	33 F-E,S-E
14.7 Transport in bulk according to Anna	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Transport category	2
Tunnel restriction code	D/E
IMDG	57
Limited quantities (LQ)	5L
UN "Model Regulation":	UN1263, PAINT RELATED MATERIAL, special provisio

SECTION 15: Regulatory information

- \cdot 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations:

Class	Share in %
NK	50-100

(Contd. on page 9)

according to 1907/2006/EC, Article 31

CR

Printing date 10.12.2014

Version number 16

Trade name: 4CR 0505 2K-Acrylverdünnung

(Contd. of page 8)

Revision: 03.12.2014

· 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.
- 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.
- R10 Flammable.
- R11 Highly flammable.
- R20 Harmful by inhalation.
- R20/21 Harmful by inhalation and in contact with skin.
- R36 Irritating to eyes.
- R38 Irritating to skin.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

· 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)

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

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

 \cdot * Data compared to the previous version altered.

- GB