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Version number 1

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

#### · 1.1 Product identifier

• Trade name: 4CR 439-115 2K Washprimer chromate-free yellow-green

- · 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

 $\cdot$  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

	0			
Classification	according to	Regulation	(EC) No	1272/2008

Flam. Liq. 3	H226	Flammable liquid and vapour.
GHS08	health hazard	
TOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
GHS05	corrosion	
Eye Dam. 1	H318	Causes serious eye damage.
GHS09	environment	
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.
GHS07		
Skin Irrit. 2	H315	Causes skin irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H335_H336	May cause respiratory irritation. May cause drowsiness or dizziness.

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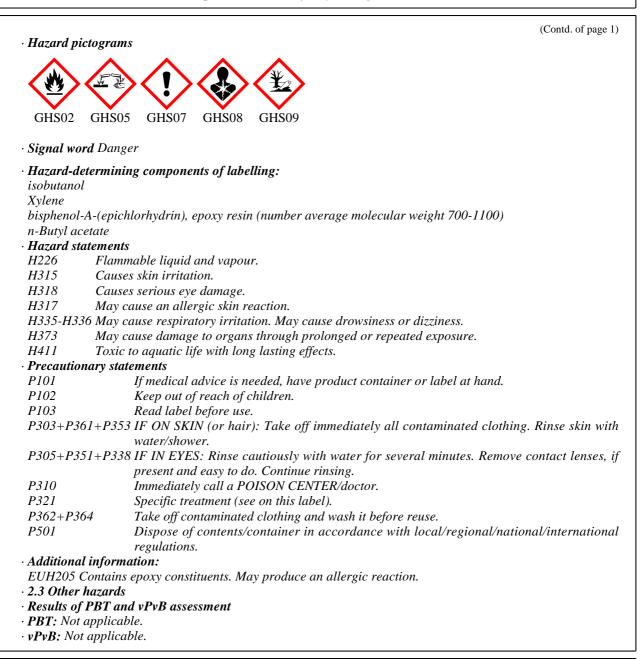
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### SECTION 3: Composition/information on ingredients

#### · 3.2 Chemical characterisation: Mixtures

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

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

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CAS: 64-17-5	ethanol	ontd. of page 2 2.5-<10%
EINECS: 200-578-6 Reg.nr.: 01-2119457610-43	🚸 Flam. Liq. 2, H225; ᡧ Eye Irrit. 2, H319	
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	2.5-<10%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-Butyl acetate Flam. Liq. 3, H226;	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 (1) Skin Sens, 1A, H317	<b>≥</b> 0.1-<1%

## **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. Then 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.

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(Contd. of page 3) 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 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 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					
78-83-1 isobutanol					
WEL Short-term value: 231 mg/m <sup>3</sup> , 75 ppm Long-term value: 154 mg/m <sup>3</sup> , 50 ppm					
64-17-5 ethanol					
WEL Long-term value: 1920 mg/m³, 1000 ppm					
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					
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					
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 • 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

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 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 (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

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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:	• 78 °C
Flash point:	24 °C (DIN 53213)
Flammability (solid, gas):	Not applicable.
Ignition temperature:	370 °C (DIN 51794)
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive ai
	vapour mixtures are possible.
Explosion limits:	
Lower:	1.1 Vol %
Upper:	12 Vol %
Vapour pressure at 20 °C:	59 hPa
Density at 20 °C:	1 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:	60-80 s (DIN 53211/4)
Solvent content:	
Water:	0.3 %
VOC (EC)	65.05 %
Solids content (weight-%):	34.6 %
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:

Possible in traces. Nitrogen oxides Hydrogen chloride (HCl)

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Carbon monoxide

Nitrogen oxides (NOx)

# SECTION 11: Toxicological information

## · 11.1 Information on toxicological effects

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

	ny zasea	on available auta, the classification criteria are not met.	
· LD/LC50 values relevant for classification:			
1330-20-7	Xylene		
Oral	LD50	5,251 mg/kg (rat)	
Dermal	LD50	>5,000 mg/kg (rabbit)	
Inhalative	LC50/4 h	29 mg/l (rat)	
7779-90-0	7779-90-0 Trizinc bis(orthophosphate)		
Oral	LD50	>5,000 mg/kg (rat)	
CMR effect Germ cell i Carcinoger Reproducti STOT-sing	sion/irritat a irritation e damage/i ious eye da y or skin sa an allergia ts (carcino nutagenic nicity Base ive toxicity le exposur	tion irritation amage. ensitisation c skin reaction. ogenity, mutagenicity and toxicity for reproduction) ity Based on available data, the classification criteria are not met. ed on available data, the classification criteria are not met. b Based on available data, the classification criteria are not met.	
•	· STOT-repeated exposure		
STOT-repe	· 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: 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.

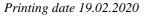
- Danger to drinking water if even small quantities leak into the ground.
- Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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· 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

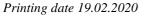
08 01 11\* waste paint and varnish containing organic solvents or other hazardous substances

· 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 IMDG	UNI263 PAINT, ENVIRONMENTALLY HAZARDOUS PAINT (Trizinc bis(orthophosphate)), MARIN POLLUTANT
IATA	PAINT
14.3 Transport hazard class(es)	
ADR	
Class	3 (F1) Flammable liquids.
Label	3
IMDG	
Class	3 Flammable liquids.
Label	3
IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR, IMDG, IATA	III

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14.5 Environmental hazards:	
Marine pollutant:	No
-	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	30
EMS Number:	<i>F-E,<u>S-E</u></i>
Stowage Category	A
14.7 Transport in bulk according to Ann	ex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Transport category	3
Tunnel restriction code	D/E
Remarks:	$\leq 5 l: 2.2.3.1.5 ADR$
IMDG	
Limited quantities (LQ)	5L
Remarks:	≤ 5 l: 2.2.3.1.5 IMDG
UN "Model Regulation":	UN 1263 PAINT, 3, III, ENVIRONMENTALL 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
- $\cdot$  Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

#### · National regulations:

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**

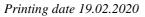
This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · 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.

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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.
· 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)
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 Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
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 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