

### 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** **4CR 4210 Füller HS 4:1**
- **Application of the substance / the preparation** Filler and surfacer
- **Manufacturer/Supplier:**  
4CR Vertriebsgesellschaft mbH  
Donaustraße 2  
94469 Deggendorf  
Tel.: +49 (0) 4841/665015  
Fax: +49 (0) 4841/665016  
e-Mail: 4cr@b2bmail.eu
- **Information in case of emergency:** +49(0)700 24112112 (MIP)

### 2 Hazards identification

- **Hazard description:** Not applicable.
- **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.  
At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.  
Has a narcotizing effect.  
R 10 Flammable.  
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R 66 Repeated exposure may cause skin dryness or cracking.  
R 67 Vapours may cause drowsiness and dizziness.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

### 3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 123-86-4 EINECS: 204-658-1	n-butyl acetate R 10-66-67	10-25%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate ☒ Xi; R 10-36	2.5-10%
CAS: 7779-90-0 EINECS: 231-944-3	Preparation based on zincphosphate (supplier's classification) ☒ N; R 51/53	2.5-10%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom. ☒ Xn, ☒ Xi, ☒ N; R 10-37-51/53-65-66-67	2.5-10%
CAS: 1330-20-7 EINECS: 215-535-7	xylene ☒ Xn, ☒ Xi; R 10-20/21-38	≤ 2.5%
CAS: 1314-13-2 EINECS: 215-222-5	zinc oxide ☒ N; R 50/53	≤ 2.5%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.

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· **After swallowing:** *If symptoms persist consult doctor.*

### 5 Fire-fighting measures

- **Suitable extinguishing agents:** *CO<sub>2</sub>, sand, extinguishing powder. Do not use water.*
- **For safety reasons unsuitable extinguishing agents:** *Water with full jet*
- **Protective equipment:** *No special measures required.*

### 6 Accidental release measures

- **Person-related safety precautions:** *Wear protective equipment. Keep unprotected persons away.*
- **Measures for environmental protection:**  
*Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.*
- **Measures for cleaning/collecting:**  
*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Do not flush with water or aqueous cleansing agents*

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:** *Use only in well ventilated areas.*
- **Information about fire - and explosion protection:**  
*Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.*
- **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

### 8 Exposure controls/personal protection

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

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

**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
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**108-65-6 2-methoxy-1-methylethyl acetate**

WEL ()	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm Long-term value: 274 mg/m <sup>3</sup> , 50 ppm Sk
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**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
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- **Additional information:** *The lists valid during the making were used as basis.*

- **Personal protective equipment:**
- **General protective and hygienic measures:** *Wash hands before breaks and at the end of work.*
- **Respiratory protection:** *Not required.*

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· **Protection of hands:**

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

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

*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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

· **Eye protection:**



*Tightly sealed goggles*

## 9 Physical and chemical properties

· **General Information**

<b>Form:</b>	Fluid
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic

· **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** 124°C

· **Flash point:** 29°C (DIN 53213)

· **Ignition temperature:** 315°C (DIN 51794)

· **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:** 1.2 Vol %

**Upper:** 7.5 Vol %

· **Vapour pressure at 20°C:** 10.7 hPa

· **Density at 20°C:** 1.499 g/cm<sup>3</sup> (DIN 53217)

· **Solubility in / Miscibility with water:**

*Not miscible or difficult to mix.*

· **Viscosity:**

**Dynamic at 20°C:** 10000 mPas

· **Solvent separation test:** < 3 %

· **Solvent content:**

**Organic solvents:** 29.5 %

**VOC (EC)** 442.6 g/l

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· **Solids content (weight-%):** 70.4 %

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous decomposition products:** Carbon monoxide

### 11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

**64742-95-6 Solvent naphtha (petroleum), light arom.**

Oral	LD50	>6800 mg/kg (rat)
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Dermal	LD50	>3400 mg/kg (rab)
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Inhalative	LC50/4 h	>10.2 mg/l (rat)
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· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

### 12 Ecological information

· **Ecotoxicological effects:**

· **Aquatic toxicity:**

**7779-90-0 Preparation based on zincphosphate (supplier's classification)**

EC50	63.1 mg/kg (daphnia)
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· **Remark:** Harmful to fish

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): 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

### 13 Disposal considerations

· **Product:**

· **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 dangerous substances
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· **Uncleaned packaging:**

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

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### 14 Transport information

· **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 3 (F1) Flammable liquids.
- **Danger code (Kemler):** 30
- **UN-Number:** 1263
- **Packaging group:** III
- **Hazard label:** 3
- **Description of goods:** 1263 PAINT, special provision 640E
- **Remarks:** ≤ 450 l: -

· **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1263
- **Label:** 3
- **Packaging group:** III
- **EMS Number:** F-E,S-E
- **Marine pollutant:** No
- **Proper shipping name:** PAINT
- **Remarks:** ≤ 30 l: -

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1263
- **Label:** 3
- **Packaging group:** III
- **Proper shipping name:** PAINT

### 15 Regulatory information

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Risk phrases:**

- 10 Flammable.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

- 2 Keep out of the reach of children.
- 25 Avoid contact with eyes.

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43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.  
46 If swallowed, seek medical advice immediately and show this container or label.

· **Special labelling of certain preparations:**

Contains rheological additive. May produce an allergic reaction.

· **National regulations:**

· **Information about limitation of use:**

14807-96-6	Talk	3B
112-07-2	2-butoxyethyl acetate	4
14808-60-7	Quartz (SiO <sub>2</sub> )	1
100-41-4	Ethylbenzene	3A

Class	Share in %
NK	25-50

### 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 R-phrases**

- 10 Flammable.
- 20/21 Harmful by inhalation and in contact with skin.
- 36 Irritating to eyes.
- 37 Irritating to respiratory system.
- 38 Irritating to skin.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

· **Department issuing MSDS: Laboratory**

· **Contact: Ingo Bolls**