according to 1907/2006/EC, Article 31



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

## · 1.1 Product identifier

· Trade name: 4CR 2040 Zinnersatzspachtel

- 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 Knife filler/ Surfacer

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. 3 H226 Flammable liquid and vapour.

GHS08 health hazard

*Repr.* 2 H361d Suspected of damaging the unborn child.

STOT RE 1 H372 Causes damage to the hearing organs through prolonged or repeated exposure.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

*Eye Irrit.* 2 *H319 Causes serious eye irritation.* 

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

Xn; Harmful

R20-48/20-63: Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child.

Xi; Irritant

R36/38:

Irritating to eyes and skin.

R10: Flammable.

· Information concerning particular hazards for human and environment:

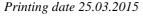
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· Classification system:

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

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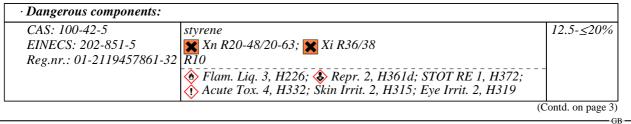
Trade name: 4CR 2040 Zinnersatzspachtel

	(Contd. of page 1)
2.2 Label el	ements
Labelling ad	cording to Regulation (EC) No 1272/2008
	is classified and labelled according to the CLP regulation.
Hazard picto	
<b>^</b>	
بلار	
<u> </u>	
	$\mathbf{V}$ $\mathbf{W}$
GHS02 (	GHS07 GHS08
Signal word	Danger
Hazard-dete	rmining components of labelling:
styrene	
Hazard state	ements
H226 Flam	mable liquid and vapour.
H315 Caus	es skin irritation.
H319 Caus	es serious eye irritation.
H361d Susp	ected of damaging the unborn child.
	es damage to the hearing organs through prolonged or repeated exposure.
	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/sparks/open flames/hot surfaces. No smoking.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P303+P361	+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin
D205 . D251	with water/shower.
P305+P351	+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
D405	present and easy to do. Continue rinsing.
P405 P501	Store locked up.
1 501	Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other ho	
	BT and vPvB assessment
<b>PBT:</b> Not ap	

## SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

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



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CAS: 7429-90-5	aluminium	3-<10%
EINECS: 231-072-3	<b>F</b> R10-15	
	🚸 Flam. Sol. 1, H228; Water-react. 2, H261	
CAS: 64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy	1-<2.5%
EINECS: 265-185-4	Xn R65; 🙀 N R51/53	
Reg.nr.: 01-2119473977-17		
	� Flam. Liq. 3, H226; � Asp. Tox. 1, H304; ∳ Aquatic Chronic 2, H411; ᠭ STOT SE 3, H336	
CAS: 64742-95-6	Solvent naphtha (petroleum), light arom.	0.3-<1%
EC number: 918-668-5	🗙 Xn R65; 🗙 Xi R37; 🎇 N R51/53	
	R10-66-67	
	♦ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ↑ STOT SE 3, H335-H336	

## **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. If symptoms persist, consult a doctor.

- After swallowing: If symptoms persist consult doctor.
- 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.
- 6.2 Environmental precautions: 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

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#### · 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:

#### 100-42-5 styrene

WEL Short-term value: 1080 mg/m<sup>3</sup>, 250 ppm

Long-term value: 430 mg/m<sup>3</sup>, 100 ppm

7429-90-5 aluminium

WEL Long-term value: 10\* 4\*\* mg/m<sup>3</sup>

\*inhalable dust \*\*respirable dust

• 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 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.

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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.

#### · 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

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

Fluid
According to product specification Characteristic
Not determined.
Not determined.
Undetermined.
145 °C
34 °C (DIN 53213)
Not applicable.
480 °C (DIN 51794)
Not determined.
Product is not selfigniting.
Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
1.2 Vol %
8.9 Vol %
6 hPa
1.545 g/cm <sup>3</sup> (DIN 53217)
Not determined.
Not determined.

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· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wo	ater): Not determined.	
· Viscosity:		
Dynamic at 20 °C:	65000 mPas	
Kinematic:	Not determined.	
· Solvent content:		
VOC (EC)	1.82 %	
Solids content (weight-%):	83.0 %	
• 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.
- · 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:
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#### 100-42-5 styrene

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat)
Inhalative	LC50/4 h (Dämpfe)	11.8 mg/l (rat)

· Primary irritant effect:

• on the skin: Irritant to skin and mucous membranes.

• on the eye: 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

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Repr. 2

## **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.

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• 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

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

· Uncleaned packaging:

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

SECTION 14: Transport informat	tion	
· 14.1 UN-Number · ADR, IMDG, IATA	UN3269	
· 14.2 UN proper shipping name · ADR · IMDG, IATA	3269 POLYESTER RESIN KIT POLYESTER RESIN KIT	
· 14.3 Transport hazard class(es)		
· ADR		
· Class	3 (F3) Flammable liquids.	
· Label	3	
· IMDG, IATA		
· Class · Label	3 Flammable liquids. 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.	

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· Danger code (Kemler):	-
· EMS Number:	<i>F-E</i> , <u><i>S-D</i></u>
· 14.7 Transport in bulk according to An	nex II of
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
·ADR	
· Transport category	3
· Tunnel restriction code	E
·IMDG	
· Limited quantities (LQ)	5L
· UN "Model Regulation":	UN3269, POLYESTER RESIN KIT, 3, III

## **SECTION 15: Regulatory information**

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

 · National regulations:

 Class
 Share in %

NK 10-<25

· 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

- H226 Flammable liquid and vapour.
- H228 Flammable solid.
- H261 In contact with water releases flammable gases.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361d Suspected of damaging the unborn child.
- H372 Causes damage to the hearing organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- R10 Flammable.
- R15 Contact with water liberates extremely flammable gases.
- R20 Harmful by inhalation.
- R36/38 Irritating to eyes and skin.
- R37 Irritating to respiratory system.
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- *R63 Possible risk of harm to the unborn child.*
- *R65 Harmful: may cause lung damage if swallowed.*
- *R66 Repeated exposure may cause skin dryness or cracking.*
- *R67* Vapours may cause drowsiness and dizziness.

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(Contd. of page 8) · 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. 3: Flammable liquids, Hazard Category 3 Flam. Sol. 1: Flammable solids, Hazard Category 1 Water-react. 2: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 2 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 Repr. 2: Reproductive toxicity, Hazard Category 2 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1 Asp. Tox. 1: Aspiration hazard, Hazard Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2  $\cdot$  \* Data compared to the previous version altered.