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SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: 4CR 7409 2K-Highspeed-Epoxy-Füller · 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 Filler · 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 according to Regulation (EC) No 1272/2008 GHS02 flame Aerosol I H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. GHS07 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation. Skin Sens. 1 May cause an allergic skin reaction. H317 Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. · Hazard pictograms GHS02 GHS07 · Signal word Danger · Hazard-determining components of labelling: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight 700-1100) · Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

- H317 May cause an allergic skin reaction.
- H412 Harmful to aquatic life with long lasting effects.
- · Precautionary statements
- P101 If medical advice is needed, have product container or label at hand.

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P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P305+P351+P3	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Additional infor	mation:
Buildup of explo	sive mixtures possible without sufficient ventilation.
EUH205 Contai	ns epoxy constituents. May produce an allergic reaction.
· 2.3 Other hazar	
. Regults of PRT	and vPvR assessment

Results of PBT and vPvB assessment

· *PBT:* 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: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37	dimethyl ether	25-50%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	acetone	≥10-<15%
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	5-<10%
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: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435-35	1-methoxy-2-propanol Flam. Liq. 3, H226; (\$STOT SE 3, H336)	2.5-<10%
CAS: 71-36-3 EINECS: 200-751-6 Reg.nr.: 01-2119484630-38	butan-1-ol ♦ Flam. Liq. 3, H226; ♦ Eye Dam. 1, H318; ♦ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	≥1-<2.5%
CAS: 54839-24-6 EINECS: 259-370-9 Reg.nr.: 01-2119475116-39	2-ethoxy-1-methylethyl acetate Flam. Liq. 3, H226; () STOT SE 3, H336	<2.5%
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%
CAS: 7779-90-0 EINECS: 231-944-3 Reg.nr.: 01-2119485044-40	Trizinc bis(orthophosphate) Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥0.25-<2.59

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• Additional information: For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

• 4.1 Description of first aid measures

• 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:

Immediately wash with water and soap and rinse thoroughly.

- 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:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

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: 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. Open and handle receptacle with care.

• *Information about fire - and explosion protection:* Do not spray onto a naked flame or any incandescent material.

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(Contd. of page 3) Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use. • **7.2 Conditions for safe storage, including any incompatibilities** • **Storage:** • **Requirements to be met by storerooms and receptacles:** Store in a cool location. Observe official regulations on storing packagings with pressurised containers. • **Information about storage in one common storage facility:** Store away from foodstuffs. • **Further information about storage conditions:** Do not seal receptacle gas tight. Keen container tightly sealed

Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.

• Storage class: 2 B

· 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

• 8.1 Control parameters • Ingredients with limit values that require monitoring at the workplace:	
115-10-6 dimethyl ether	
WEL Short-term value: 958 mg/m ³ , 500 ppm Long-term value: 766 mg/m ³ , 400 ppm	
67-64-1 acetone	
WEL Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm	
1330-20-7 Xylene	
WEL Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV	
107-98-2 1-methoxy-2-propanol	
WEL Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm Sk	
71-36-3 butan-1-ol	
WEL Short-term value: 154 mg/m ³ , 50 ppm Sk	
100-41-4 ethylbenzene	
WEL Short-term value: 552 mg/m ³ , 125 ppm Long-term value: 441 mg/m ³ , 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	
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(Contd. of page 4) · 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. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes. 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. Use suitable respiratory protective device in case of insufficient ventilation. · 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 Nitrile rubber, NBR 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

9.1 Information on basic physical and chemical properties General Information			
Appearance:			
Form:	Aerosol		
Colour:	According to product specification		
Odour:	Characteristic		
Odour threshold:	Not determined.		
pH-value:	Not determined.		



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 Change in condition Melting point/freezing point: Initial boiling point and boiling range 	Undetermined. 24.9 °C
· Flash point:	<0 °C (DIN 53213)
· Flammability (solid, gas):	Not applicable.
Ignition temperature:	235 °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:	2.6 Vol %
Upper:	18.6 Vol %
Vapour pressure at 20 °C:	5,200 hPa
Density at 20 °C:	0.75 g/cm ³ (DIN 53217)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
VOC (EC)	73.00 %
Solids content (weight-%):	27.0 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions Reacts with acids, alkalis and oxidising agents.
- 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) Carbon monoxide Nitrogen oxides (NOx)

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^{· 10.2} Chemical stability

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SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

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

· LD/LC50 values relevant for classification:

1330-20-7 Xylene

Oral

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 Trizinc bis(orthophosphate)

LD50 >5,000 mg/kg (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- · Serious eye damage/irritation
- Causes serious eye irritation.
- · Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ 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 Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- 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
- · 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.

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· European	waste catalogue
15 01 10*	packaging containing residues of or contaminated by hazardous substances
14 06 03*	other solvents and solvent mixtures
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	UN1950
· 14.2 UN proper shipping name · ADR · IMDG · IATA	UN1950 AEROSOLS AEROSOLS AEROSOLS, flammable
· 14.3 Transport hazard class(es)	
ADR	
- Class	2 5F Gases.
·Label	2.1
· IMDG, IATA	
· Class	2.1
- Label	2.1
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Warning: Gases.
· Danger code (Kemler): · EMS Number:	- F-D,S-U
· EMS Number: · Stowage Code	F-D,S-U SW1 Protected from sources of heat.
Surrage Cour	SW1 Frotected from sources of near. SW22 For AEROSOLS with a maximum capacity of 1 litr Category A. For AEROSOLS with a capacity above 1 litr Category B. For WASTE AEROSOLS: Category C, Clev of living quarters.

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· Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre:
	Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.
	For AEROSOLS with a capacity above 1 litre:
	Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS:
	Segregation as for the appropriate subdivision of class 2.
· 14.7 Transport in bulk according to An	nex II of
Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Transport category	2
· Tunnel restriction code	D
· IMDG	
· Limited quantities (LQ)	IL
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

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 P3a FLAMMABLE AEROSOLS
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 150 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:

ClassShare in %NK50-100

· 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

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

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.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

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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 usi	ng substance data accordin
to Regulation (EC) No 1272/2008.	0
Abbreviations and acronyms:	
RID: Règlement international concernant le transport des marchandises dangereuses par chemin a	de fer (Regulations Concerning t
International Transport of Dangerous Goods by Rail)	ie jer (Regulations Concerning i
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)	
ICAO: International Civil Aviation Organisation	
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agree	ement concerning the Internation
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. Gas 1: Flammable gases – Category 1	
Aerosol 1: Aerosols – Category 1	
Press. Gas L: Gases under pressure – Liquefied gas	
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 Junit 2: Serious eye damage/eye irritation – Category 2	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1	
SKIII SEIS. 1. SKIII SEISIIISAIION – Calegory 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
STOT SE 5. Specific larger organ loxicity (single exposure) – Category 5 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	
Asp. Tox. 1: Aspiration hazard – Category 1	
Asp. 10x. 1. Aspiration hazard – Calegory 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	
Aquatic Acture 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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3	
* Data compared to the previous version altered.	