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

- · 1.1 Product identifier
- · Trade name: 4CR 7415 Zinkspray
- · 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 Anticorrosion additive
- · 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 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

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

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· Hazard pictograms









GHS02

GHS07

HS08 GHS

· Signal word Danger

· Hazard-determining components of labelling:

xylene

acetone

· Hazard statements

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

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.

H410 Very toxic to aquatic life with long lasting effects.

· 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, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P251 Do not pierce or burn, even after use.

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.

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 information:

Buildup of explosive mixtures possible without sufficient ventilation.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- \cdot **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:		
ſ	CAS: 7440-66-6	zinc powder - zinc dust (stabilized)	25-50%
	EINECS: 231-175-3	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
	Reg.nr.: 01-2119467174-37		
ſ	CAS: 115-10-6	dimethyl ether	10-25%
	EINECS: 204-065-8	♦ Flam. Gas 1, H220; Press. Gas L, H280	
	Reg.nr.: 01-2119472128-37		

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~		(Contd. of pa
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	≥10-≤209
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	≥10-<12.5
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-21194869440-21	propane Flam. Gas 1, H220; Press. Gas C, H280	2.5-<10%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-31	butane Flam. Gas 1, H220; Press. Gas C, H280	2.5-<10%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	methyl ethyl ketone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	2.5-<10%
EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Hydrocarbons, C9, aromatics ♦ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ♦ STOT SE 3, H335-H336	2.5-<10%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27	isobutane Flam. Gas 1, H220; Press. Gas C, H280	≥0.1-<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	≥0.1-<2.5
CAS: 1314-13-2 EINECS: 215-222-5	zinc oxide Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥0.25-<2

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · 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: Seek immediate medical advice.
- · 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.

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Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures

 \cdot 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:

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.

Open and handle receptacle with care.

· Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

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.

- $\cdot \textit{Information about storage in one common storage facility:} \textit{Store away from foodstuffs}.$
- · Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

- · Storage class: 2 B
- \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.

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WEL SH 67-64-1 WEL SH La 1330-20 WEL SH La SH	Chort-term value: 958 mg/m³, 500 ppm Cong-term value: 766 mg/m³, 400 ppm I acetone Chort-term value: 3620 mg/m³, 1500 ppm Cong-term value: 1210 mg/m³, 500 ppm Cong-term value: 441 mg/m³, 100 ppm Cong-term value: 220 mg/m³, 50 ppm Cong-term value: 441 mg/m³, 50 ppm Cong-term value: 441 mg/m³, 50 ppm Cong-term value: 220 mg/m³, 50 ppm Cong-term value: 220 mg/m³, 50 ppm Cong-term value: 220 mg/m³, 50 ppm
Lo 67-64-1 WEL SF Lo 1330-20 WEL SF Lo SF	### Cong-term value: 766 mg/m³, 400 ppm ##################################
67-64-1 WEL SH La 1330-20 WEL SH La SH	## acetone Thort-term value: 3620 mg/m³, 1500 ppm ## cong-term value: 1210 mg/m³, 500 ppm ## Co-7 xylene Thort-term value: 441 mg/m³, 100 ppm ## cong-term value: 220 mg/m³, 50 ppm ## cong-term value: 220 mg/m³, 50 ppm ## cong-term value: 220 mg/m³, 50 ppm
WEL SI La 1330-20 WEL SI La SI	hort-term value: 3620 mg/m³, 1500 ppm ong-term value: 1210 mg/m³, 500 ppm 0-7 xylene hort-term value: 441 mg/m³, 100 ppm ong-term value: 220 mg/m³, 50 ppm
La 1330-20 WEL SH La Sk	ong-term value: 1210 mg/m³, 500 ppm 0-7 xylene Chort-term value: 441 mg/m³, 100 ppm ong-term value: 220 mg/m³, 50 ppm k; BMGV
1330-20 WEL SI Lo SI	0-7 xylene Thort-term value: 441 mg/m³, 100 ppm ong-term value: 220 mg/m³, 50 ppm k; BMGV
WEL SH La SH	hort-term value: 441 mg/m³, 100 ppm ong-term value: 220 mg/m³, 50 ppm k; BMGV
La Sk	ong-term value: 220 mg/m³, 50 ppm k; BMGV
Sk	k; BMGV
	· ·
10/ 07	
100-9/-	-8 butane
WEL SI	hort-term value: 1810 mg/m³, 750 ppm
	ong-term value: 1450 mg/m³, 600 ppm
	Carc (if more than 0.1% of buta-1.3-diene)
78-93-3	B methyl ethyl ketone
	hort-term value: 899 mg/m³, 300 ppm
	ong-term value: 600 mg/m³, 200 ppm
Sk	k, BMGV
100-41-	-4 ethylbenzene
	hort-term value: 552 mg/m³, 125 ppm
	ong-term value: 441 mg/m³, 100 ppm
Sk	k
Ingredie	ents with biological limit values:
1330-20	0-7 xylene
BMGV	650 mmol/mol creatinine
	Medium: urine
	Sampling time: post shift

78-93-3 methyl ethyl ketone

BMGV 70 µmol/L

Medium: urine

Sampling time: post shift

Parameter: butan-2-one

- · 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.

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.

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· Protection of hands:

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	l and cl	hemical	properties
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· 9.1 Information on	basic physical	and chemical	properties
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· General Information

· Appearance:

Form: Aerosol

Colour: According to product specification

· Odour: Characteristic · Odour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Undetermined. Melting point/freezing point:

Initial boiling point and boiling range: -44°C

· Flash point: <0°C (DIN EN ISO 1523:2002)

· Flammability (solid, gas): Not applicable.

235°C (DIN 51794) · Ignition temperature:

Not determined. · Decomposition temperature:

· Auto-ignition temperature: Product is not selfigniting.

In use, may form flammable/explosive vapour-air mixture. · Explosive properties:

· Explosion limits:

Lower: 1.1 Vol % 18.6 Vol % Upper:

8,300 hPa · Vapour pressure at 20°C:

1.034 g/cm³ (DIN EN ISO 2811-1) · Density at 20°C:

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

· Solubility in / Miscibility with

Not miscible or difficult to mix. water:

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· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
VOC (EC)	65.80 %	
Solids content (weight-%):	34.2 %	
· 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: Carbon monoxide

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50	· LD/LC50 values relevant for classification:	
1330-20-7	1330-20-7 xylene	
Oral		5,251 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	29 mg/l (rat)
1314-13-2	1314-13-2 zinc oxide	
Oral	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 Based on available data, the classification criteria are not met.
- · 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

May cause drowsiness or dizziness.

· STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

· Aspiration hazard

May be fatal if swallowed and enters airways.

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

7440-66-6 zinc powder - zinc dust (stabilized)

EC50 (dynamic) | 0.9 mg/kg (daphnia) (US EPA 821-R-02-012)

- · 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: Very 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.

Very toxic for 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.

	· European waste catalogue		
Γ	08 01 11* waste paint and varnish containing organic solvents or other hazardous substances		
Γ	15 01 04	15 01 04 metallic packaging	
15 01 11* metallic packaging containing a hazardous solid porous matrix (for example asbestos, empty pressure containers		metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers	

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

SECTION	14: Transport	t information

· 14.1 UN-Number · ADR, IMDG, IATA	UN1950
· 14.2 UN proper shipping name · ADR	UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
· IMDG	AEROSOLS (zinc powder - zinc dust (stabilized), Solvent naphtha), MARINE POLLUTANT
· IATA	AEROSOLS, flammable

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· 14.3 Transport hazard class(es)	
$\cdot ADR$	
· Class · Label	2 5F Gases. 2.1
· <i>IMDG</i>	
· Class	2.1
· Label · · · · · · · · · · · · · · · · · · ·	2.1
2	
· Class	2.1
· Label	2.1
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances zinc powder - zinc dust (stabilized)
· Marine pollutant:	Yes
· Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user	Warning: Gases.
Danger code (Kemler):	-
· EMS Number: · Stowage Code	F-D,S-U SW1 Protected from sources of heat.
Slowage Code	SW22 For AEROSOLS with a maximum capacity of 1 litre Category A. For AEROSOLS with a capacity above 1 litre Category B. For WASTE AEROSOLS: Category C, Clea of living quarters.
· Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre Segregation as for class 9. Stow "separated from" class except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriat subdivision of class 2. For WASTE AEROSOLS Segregation as for the appropriate subdivision of class 2.
· 14.7 Transport in bulk according to Annex I Marpol and the IBC Code	II of Not applicable.
· Transport/Additional information:	

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· Tunnel restriction code	D
· IMDG · Limited quantities (LQ)	1L
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY 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

E1 Hazardous to the Aquatic Environment

P3a FLAMMABLE AEROSOLS

- Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · National regulations:

Class	Share in %
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

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

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.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 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:

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

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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

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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 C: Gases under pressure - Compressed gas 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 Irrit. 2: Serious eye damage/eye irritation - Category 2

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 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

 $A quatic\ Chronic\ 3:\ Hazardous\ to\ the\ aquatic\ environment\ -\ long-term\ aquatic\ hazard\ -\ Category\ 3$

* Data compared to the previous version altered.