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

## · 1.1 Product identifier

· Trade name: 4CR 2910 BPO-Härter Kartusche rot

• 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 Hardening agent/ Curing agent

# $\cdot$ 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 · Classification according to Regulation (EC) No 1272/2008



Org. Perox. E H242 Heating may cause a fire.

GHS09 environment

Aquatic Acute 1H400Very toxic to aquatic life.Aquatic Chronic 1H410Very toxic to aquatic life with long lasting effects.

GHS07

Eye Irrit. 2H319 Causes serious eye irritation.Skin Sens. 1H317 May cause an allergic skin reaction.

· 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



- · Signal word Warning
- Hazard-determining components of labelling: dibenzoyl peroxide
- Hazard statements
   H242 Heating may cause a fire.
   H319 Causes serious eye irritation.
   H317 May cause an allergic skin reaction.

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H410 Very toxi	c 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.
P220	Keep/Store away from clothing/combustible materials.
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410	Protect from sunlight.
P411+P235	Store at temperatures not exceeding 25°C. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Additional info	rmation:
Restricted to pr	ofessional users.
· 2 3 Other haza	rds

2.3 Other hazards

## · 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: 94-36-0 EINECS: 202-327-6 Reg.nr.: 01-2119511472-50	dibenzoyl peroxide	25-50%
CAS: 131-11-3 EINECS: 205-011-6 Reg.nr.: 01-2119437229-36	dimethyl phthalate substance with a Community workplace exposure limit	25-50%
CAS: 107-21-1 EINECS: 203-473-3 Reg.nr.: 01-2119456816-28	ethanediol 🐼 STOT RE 2, H373; 🔿 Acute Tox. 4, H302	2.5-<10%
· Additional information: For	r the wording of the listed hazard phrases refer to section 16.	•

## **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.
- · 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.

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• Information for doctor:

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

### **SECTION 6: Accidental release measures**

• 6.1 Personal precautions, protective equipment and emergency procedures Not required.

 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: Pick up mechanically.
- · 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 Store in cool, dry place in tightly closed receptacles.

- · Information about fire and explosion protection: No special measures required.
- · 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: 5.2
- 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 r	eauire monitoring	at the workplace:

- 94-36-0 dibenzoyl peroxide
- WEL Long-term value: 5 mg/m<sup>3</sup>
- 131-11-3 dimethyl phthalate
- WEL Short-term value: 10 mg/m<sup>3</sup> Long-term value: 5 mg/m<sup>3</sup>

#### Long-term value. 5

- 107-21-1 ethanediol
- WEL Short-term value: 104\*\* mg/m<sup>3</sup>, 40\*\* ppm
  - Long-term value: 10\* 52\*\* mg/m<sup>3</sup>, 20\*\* ppm
  - Sk \*particulate \*\*vapour

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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: Not required.
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.

· 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 ar • General Information • Appearance:	nd chemical properties	
Form:	Solid	
Colour:	According to product specification	
· Odour:	Characteristic	
· Odour threshold:	Not determined.	
pH-value:	Not applicable.	
· Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling ra	unge: 100°C	
· Flash point:	Not applicable.	
· Flammability (solid, gas):	May cause fire.	
· Ignition temperature:	410°C (DIN 51794)	

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· Decomposition temperature:	$SADT = 50^{\circ}C$
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure at 20°C:	23 hPa
· Density at 20°C:	1.2 g/cm <sup>3</sup> (DIN 53217)
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
water:	Insoluble.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Water:	10.0 %
VOC (EC)	6.00 %
Solids content (weight-%):	84.0 %
• 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.
- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · 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.

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- · 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: Very toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) : slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

16 09 03\* peroxides, for example hydrogen peroxide

· Uncleaned packaging:

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

· 14.1 UN-Number	10/2100
· ADR, IMDG, IATA	UN3108
$\cdot$ 14.2 UN proper shipping name	
·ADR	UN3108 ORGANIC PEROXIDE TYPE E, SOLI
	(dibenzoyl peroxide), ENVIRONMENTALLY HAZARDOU
·IMDG	ORGANIC PEROXIDE TYPE E, SOLID (dibenzo
	peroxide), MARINE POLLUTANT
·IATA	ORGANIC PEROXIDE TYPE E, SOLID (dibenzo
	peroxide)

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14.3 Transport hazard class(es)		
ADR		
52		
Class	5.2 (P1) Organic peroxides.	
Label	5.2	
IMDG		
52		
Class	5.2 Organic peroxides.	
Label	52	
IATA		
<u>**</u>		
52		
	520	
Class Label	5.2 Organic peroxides. 5.2	
	5.2	
14.4 Packing group ADR, IMDG, IATA	Void	
14.5 Environmental hazards:		
Marine pollutant:	Yes	
-	Symbol (fish and tree)	
Special marking (ADR):	Symbol (fish and tree)	
14.6 Special precautions for user	Warning: Organic peroxides.	
Danger code (Kemler):	-	
EMS Number: Stowage Category	F-J,S-R D	
Stowage Code	SW1 Protected from sources of heat.	
Segregation Code	SG35 Stow "separated from" acids.	
Seg. eganon cour	SG36 Stow "separated from" alkalis.	
14.7 Transport in bulk according to Ann	ex II of	
Marpol and the IBC Code	Not applicable.	
Transport/Additional information:		
ADR		
Transport category	2	
Tunnel restriction code	D	
IMDG		
Limited quantities (LQ)	500 g	
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• UN "Model Regulation":

UN 3108 ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE), 5.2, 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
- P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES E1 Hazardous to the Aquatic Environment
- $\cdot$  Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- $\cdot$  Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

· National regulations:

 Class
 Share in %

 NK
 2.5-<10</td>

· 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 H241 Heating may cause a fire or explosion. H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. 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. · 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) 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 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)
- PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative Org. Perox. B: Organic peroxides – Type B

- Org. Perox. E: Organic peroxides Type B Org. Perox. E: Organic peroxides – Type E/F
- Acute Tox. 4: Acute toxicity Category 4

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Skin Sens. 1: Skin sensitisation – Category 1

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STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

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

 $\cdot$  \* Data compared to the previous version altered.

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