

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 21.04.2023

Version number 1.1 (replaces version 1.0)

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1 Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier · Trade name: KREUL Refill Textile Marker Opak White 25 ml KREUL Refill Textile Marker Opak Black 25 ml · Article number: 92791, 92792 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 Paint For artists and hobby user. · 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: C. KREUL GmbH & Co. KG Carl-Kreul-Straße 2 D-91352 HALLERNDORF GERMANY Phone: + 49 (0) 9545/925 - 0 Fax: + 49 (0) 9545/925 - 511 info@c-kreul.de Further information obtainable from: Product Safety Department: Treiber, b.treiber@c-kreul.de 1.4 Emergency telephone number: Phone: + 49 (0) 9545/925 - 0 Fax: + 49 (0) 9545/925 - 511 (Monday - Thursday 8.00 - 17.00, Friday 8.00 - 15.00) 2 Hazards identification 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 The product is not classified, according to the GB CLP regulation.

· 2.2 Label elements

- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- Additional information:
- EUH208 Contains 1,2-benzisothiazol-3(2H)-one, 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3: 1). May produce an allergic reaction.
- EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- · 3.2 Mixtures
- Description:

Mixture of substances listed below with nonhazardous additions.

Mixture based on water, colorants, binders and additives.

 Dangerous of 	components
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Dangerous components.		
CAS: 1332-58-7	Kaolin	10-<25%
	substance with a Community workplace exposure limit	
CAS: 57-55-6	Propylene glycol	2.5-<5%
EINECS: 200-338-0	substance with a Community workplace exposure limit	
Reg.nr.: 01-2119456809-23-XXXX		
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CAS: 111-46-6	2,2'-oxybisethanol	0-<2.5%
EINECS: 203-872-2	Acute Tox. 4, H302	
Index number: 603-140-00-6		
CAS: 2634-33-5	1,2-benzisothiazol-3(2H)-one	0.005-<0.05%
EINECS: 220-120-9 Index number: 613-088-00-6	Acute Tox. 1, H330; Eye Dam. 1, H318; Aquatic Acute 1,	
Reg.nr.: 01-2120761540-60-XXXX	H400; Aquatic Chronic 2, H411; 🔶 Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens, 1, H317	
Reg.m.: 01-2120701040-00-70000	Specific concentration limit: Skin Sens. 1; H317: $C \ge 0.05 \%$	
CAS: 55965-84-9		0.00025-<0.0015
Index number: 613-167-00-5	3-one (3:1)	0.00020 0.0010
	Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330;	
	🔗 Skin Corr. 1C, H314; Eye Dam. 1, H318; 🚯 Aquatic Acute 1,	
	H400 (M=100); Aquatic Chronic 1, H410 (M=100); 🚸 Skin Sens.	
	1A, H317	
	Specific concentration limits: Skin Corr. 1C; H314: $C \ge 0.6 \%$	
	Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 %	
	% Eve Dam. 1; H318: C ≥ 0.6 %	
	Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 %	
	Skin Sens. 1A; H317: C ≥ 0.0015 %	

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

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:

Wash with water and acidic soap.

- If skin irritation continues, consult a doctor.
- After eye contact:
- Remove contact lenses.

Rinse opened eye for several minutes under running water. Then consult a doctor.

- After swallowing:
- If symptoms persist consult doctor.
- Rinse out mouth and then drink plenty of water.
- 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.

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
- Formation of toxic gases is possible during heating or in case of fire.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

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

6.2 Environmental precautions:

Dilute with plenty of water.

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 of the material collected according to regulations.
- 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.

7 Handling and storage

 \cdot 7.1 Precautions for safe handling No special precautions are necessary if used correctly.

- Information about fire and explosion protection:
- No special measures required. The product is not flammable.

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· 7.2 Conditions for	\cdot 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: Not required. 				
· Further information					
Protect from frost.					
Protect from heat ar • Storage class: 12	nd direct sunligh	t.			
· 7.3 Specific end us	e(s) See chapte	er 1.2.			
-					
8 Exposure cont	olo/noroona	Invotaction			
o Exposure cont	ois/persona				
· 8.1 Control parame	eters				
-	nit values that	require monitoring at the workplace:			
1332-58-7 Kaolin	0 / 3				
WEL Long-term val 57-55-6 Propylene					
WEL Long-term val		ng/m³ 150* ppm			
	and particulates				
111-46-6 2,2'-oxybi	sethanol				
WEL Long-term val	ue: 101 mg/m ³ ,	23 ppm			
·DNELs					
57-55-6 Propylene					
Inhalative chronic -	local effect	10 mg/m ³ /long-term (general population)			
obronio	avatamia offact	10 mg/m³ /long-term (worker) 50 mg/m³ /long term (general population)			
chionic -	systemic enect	168 mg/m ³ /long-term (worker)			
57-55-6 Propylene	alvcol				
water		mg/l			
freshwater	260	mg/l			
marine water	26 n	ng/l			
sewage treatment p		-			
freshwater sediment		mg/kg			
marine sediment		ng/kg			
soil		alid during the making were used as basis.			
· 8.2 Exposure conti		and during the making were used as basis.			
		No further data; see section 7.			
 Individual protection 	on measures, s	such as personal protective equipment			
• General protective Do not eat, drink, sn					
Avoid contact with the					
Do not inhale gases					
Wash hands before • Respiratory protec					
Hand protection	•				
		neable and resistant to the product/ the substance/ the preparation.			
mixture.	s no recommen	Mation to the glove material can be given for the product the preparation, the chemical			
	e material on c	onsideration of the penetration times, rates of diffusion and the degradation			
 Material of gloves The selection of the 	e suitable glove	s does not only depend on the material, but also on further marks of quality and varies			
from manufacturer	to manufacture	er. As the product is a preparation of several substances, the resistance of the glove			
material can not be • Penetration time o		vance and has therefore to be checked prior to the application.			
		be found out by the manufacturer of the protective gloves and has to be observed.			
 Eye/face protection 	I Goggles recor	nmended during refilling			
9 Physical and cl	nemical pro	perties			
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• 9.1 Information on		and chemical properties			
• Physical state		Fluid			
Colour:		According to product specification			
 Odour: Odour threshold: 		Characteristic Not determined.			
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Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	100 °C (7732-18-5 water, distilled, conductivity or of simil
Boining point or initial boining point and boining range	purity)
Flammability	Not applicable.
· Lower and upper explosion limit	Not applicable.
Lower:	Net determined
	Not determined. Not determined.
· Upper:	>100 °C
Flash point:	
Decomposition temperature:	Not determined. 6–9
PH at 20 °C	0-9
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	23 hPa (7732-18-5 water, distilled, conductivity or of simil
	purity)
Density and/or relative density	
Density at 20 °C:	1.2–1.4 g/cm ³
Relative density	Not determined.
· Vapour density	Not determined.
9.2 Other information	
· Appearance:	
Form:	Fluid
· Important information on protection of health and	d
environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
· Evaporation rate	Not determined.
Information with regard to physical hazard classes	
• Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
• Self-reactive substances and mixtures	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric solids	Void
• Self-heating substances and mixtures	Void
 Substances and mixtures, which emit flammable gases in contact with water 	
in contact with water	Void
· Oxidising liquids	Void
• Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
 Desensitised explosives 	Void

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: No dangerous decomposition products known.

11 Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

· LD/LC50	values re	relevant for classification:	
57-55-6 P	Propylene	e glycol	
Oral	LD50	22,000 mg/kg (rat) (ECHA)	
Dermal	LD50	>2,000 mg/kg (rabbit) (ECHA)	
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111-46-6	111-46-6 2,2'-oxybisethanol		
Oral	LD50	12,565 mg/kg (rat)	
Dermal	LD50	11,890 mg/kg (rabbit)	
2634-33-5	1,2-benz	isothiazol-3(2H)-one	
Oral	LD50	490 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rat)	
Inhalative	LC50/4h	0.05 mg/m³ (ATE)	
55965-84-	9 5-chlor	o-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	
Oral	LD50	64 mg/kg (rat)	
Dermal	LD50	87 mg/kg (rab)	
Inhalative	LC50/4h	0.05 mg/m³ (ATE)	
		tation Based on available data, the classification criteria are not met.	
		ge/irritation Based on available data, the classification criteria are not met.	
 Respirato 	ory or skir	n sensitisation Based on available data, the classification criteria are not met.	
· Germ cell	mutager	nicity Based on available data, the classification criteria are not met.	
· Carcinog	enicitv Ba	ased 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.

· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

12 Ecological information

· 12.1 Toxicity

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· Aquatic to	•				
	57-55-6 Propylene glycol				
	40,613 mg/l (oncorhynchus mykiss) (ECHA)				
	18,340 mg/l (ceriodaphnia dubia) (ECHA)				
	19,300 mg/l (sceletonema costatum) (ECHA)				
	>20,000 mg/l (pseudomonas putida) (ECHA)				
	13,020 mg/l (ceriodaphnia dubia) (ECHA)				
	<5,300 mg/l (sceletonema costatum) (ECHA)				
	1,2-benzisothiazol-3(2H)-one				
	1.6 mg/l (oncorhynchus mykiss)				
	2.94 mg/l (daphnia magna)				
	0.11 mg/l (selenastrum capricornutum)				
	0.04 mg/l (selenastrum capricornutum)				
	0.11 mg/l (pseudokirchneriella subcapitata)				
	1.2 mg/l (daphnia)				
	0.027 mg/l (sceletonema costatum)				
	0.21 mg/l (oncorhynchus mykiss)				
	5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)				
	0.22 mg/l (oncorhynchus mykiss) (RAC)				
	0.1 mg/l (daphnia magna)				
	0.048 mg/l (pseudokirchneriella subcapitata)				
NOEC	0.004 mg/l (daphnia magna) (OECD 211)				
ErC50	0.0049 mg/l /120h (sceletonema costatum)				
	0.004 mg/l (daphnia)				
NOEC/48d	0.00064 mg/l (sceletonema costatum)				
	0.0012 mg/l (pseudokirchneriella subcapitata) (OECD 201)				
NOEC/28d	0.098 mg/l (oncorhynchus mykiss) (OECD 210)				
· 12.2 Persis	stence and degradability				
57-55-6 Pro	57-55-6 Propylene glycol				
Carbon diox	kide production 81.7 % /28d (OECD 301 F)				
DOC remov	/al 98.3 % /28d (OECD 301 F)				
Oxygen cor					
	cumulative potential No further relevant information available.				
	ty in soil No further relevant information available.				
	ts of PBT and vPvB assessment				
• PBT: Not a • vPvB: Not a					
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- (Contd. of page 5) · 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects · Additional ecological information:
- General notes:

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.

13 Disposal considerations

· 13.1 Waste treatment methods

Recommendation

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

· Uncleaned packaging:

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

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14.1 UN number or ID number ADR, IMDG, IATA	not regulated	
14.2 UN proper shipping name ADR, IMDG, IATA	not regulated	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA Class	not regulated	
14.4 Packing group ADR, IMDG, IATA	not regulated	
14.5 Environmental hazards:	Not applicable.	
14.6 Special precautions for user	Not applicable.	
14.7 Maritime transport in bulk according instruments	g to IMO Not applicable.	
UN "Model Regulation":	not regulated	

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.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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

H301 Toxic if swallowed.

- H302 Harmful if swallowed.
- H310 Fatal in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H330 Fatal if inhaled.
- 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.

· Department issuing SDS: Product Safety Department

- Contact: B. Treiber, b.treiber@c-kreul.de
- Abbreviations and acronyms:

ADR: Accord relatif au transport international 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)

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DNEL: Derived No-Effect Level (UK REACH)	
PNEC: Predicted No-Effect Concentration (UK REACH)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Acute Tox. 3: Acute toxicity – Category 3	
Acute Tox. 4: Acute toxicity – Category 4	
Acute Tox. 2: Acute toxicity – Category 2	
Acute Tox. 1: Acute toxicity – Category 1	
Skin Corr. 1C: Skin corrosion/irritation – Category 1C	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
Skin Sens. 1: Skin sensitisation – Category 1	
Skin Sens. 1A: Skin sensitisation – Category 1A	
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	
* Data compared to the previous version altered.	
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