

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.07.2022 Version number 1.0 Revision: 29.07.2022

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

- · 1.1 Product identifier
- · Trade name: KREUL Refill Chalk Marker Snow White 25 ml KREUL Refill Chalk Marker medium Snow White Set
- · Article number: 22741, 22710
- 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

DEUTSCHLAND

Tel. + 49 (0)9545 / 925 - 0 Fax + 49 (0)9545 / 925 - 511

E-Mail: info@c-kreul.de

· Further information obtainable from:

Product Safety Department:

Treiber, b.treiber@c-kreul.de

· 1.4 Emergency telephone number:

Telephone + 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:

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.

· Dangerous components:		
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43-XXXX	ethanol	5–<10%
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119489379-17-XXXX	titanium dioxide	5–<10%
CAS: 56-81-5 EINECS: 200-289-5	glycerol substance with a Community workplace exposure limit	2.5-<5%

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

- GB

Printing date 29.07.2022 Version number 1.0 Revision: 29.07.2022

(Contd. of page 1)

4 First aid measures

- · 4.1 Description of first aid measures
- · General information: No special measures required.
- After inhalation: Not applicable.
- · 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.

After swallowing:

Rinse out mouth and then drink plenty of water.

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.

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: Mouth respiratory protective device.
- 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

- · 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.

- · 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 about storage conditions:

Protect from frost.

Protect from heat and direct sunlight.

· Storage class: 12

· 7.3 Specific end use(s) See chapter 1.2.

8 Exposure controls/personal protection

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

64-17-5 ethanol

WEL Long-term value: 1920 mg/m³, 1000 ppm

56-81-5 glycerol

WEL Long-term value: 10 mg/m³

·DNELs

64-17-5 ethanol

Oral long-term exposure-systemic effects 87 mg/kg (general population)

(Contd. on page 3)

Printing date 29.07.2022 Version number 1.0 Revision: 29.07.2022

			(Contd. of page
Dermal	long-term exposure-	systemic effects	206 mg/kg bw/d (general population)
			343 mg/kg bw/d (worker)
Inhalative	long-term exposure-	systemic effects	114 mg/m³ (general population)
			950 mg/m³ (worker)
PNECs			
64-17-5 et	hanol		
water		2.75 mg/l	
freshwater		0.96 mg/l	
marine wat	ter	0.79 mg/l	
sewage tre	eatment plant (STP)	580 mg/l	
freshwater	sediment	3.6 mg/kg	
soil		0.63 mg/kg	

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working.

Avoid contact with the eyes and skin.

· Respiratory protection: Not required.

Hand protection

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.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection Goggles recommended during refilling

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state Fluid

· Colour: According to product specification

Odour: Characteristic
Odour threshold: Not determined.
Melting point/freezing point: Undetermined.
Boiling point or initial boiling point and boiling range
Flammability Undetermined.
Not applicable.

Lower and upper explosion limit

Lower:
Upper:
Not determined.
Flash point:
Not applicable.
Decomposition temperature:
Not determined.
Not determined.
One dete

· Viscosity:

Kinematic viscosity
 Dynamic:
 Solubility
 water:
 Fully miscible.

water: Fully miscible.
 Partition coefficient n-octanol/water (log value) Not determined.
 Vapour pressure: Not determined.

Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 1.0–1.2 g/cm³
 Not determined.
 Not determined.

· 9.2 Other information

· Appearance:
· Form:

· Form: Fluid · Important information on protection of health and

environment, and on safety.

• Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Change in condition

• Evaporation rate Not determined.

(Contd. on page 4)

Printing date 29.07.2022 Version number 1.0 Revision: 29.07.2022

		(Contd. of page
Information with regard to physical hazard clas	ses	
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	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flammab	le gases	
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 \	/alues rel	levant for classification:
13463-67-	7 titaniun	n dioxide
Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LC50/4h	>6.82 mg/m³ (rat)
64-17-5 et	hanol	
Oral	LD50	10,470 mg/kg (rat) (OECD 403)
Dermal	LD50	>2,000 mg/kg (rat)
		12,800 mg/kg (rabbit)
Inhalative	LC50/4h	124.7 mg/m³ (rat) (OECD 403)
56-81-5 gl	ycerol	
Oral	LD50	12,600 mg/kg (rat)
471-34-1	calcium c	arbonate
Oral	LD50	6,450 mg/kg (rat)

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · 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.
- · 11.2 Information on other hazards

· Endocrine disrupting propertie	S
----------------------------------	---

None of the ingredients is listed.

- GB

Printing date 29.07.2022 Version number 1.0 Revision: 29.07.2022

(Contd. of page 4)

12 Ecological information

· 12.1 Toxicity

· Aquatic to	exicity:	
13463-67-	7 titanium dioxide	
EC50	>100 mg/l (pseudokirchneriella subcapitata) (OECD 201)	
	>10,000 mg/l (sceletonema costatum) (ISO 10253)	
NOEC	>100,000 mg/l (hyalella azteca) (ASTM 1706)	
LC50	>10,000 mg/l (acartia tonsa) (ISO 14669 (1999) ISO 5667-16 (1998))	
	>1,000 mg/l (daphnia magna) (OECD 202)	
	>1,000 mg/l (pimephales promelas) (EPA-540/9-85-006)	
64-17-5 et	hanol	
LC50/96h	14,200 mg/l (pimephales promelas) (US EPA method E03-0)	
	13,000 mg/l (oncorhynchus mykiss)	
LC50/48h	5,012 mg/l (ceriodaphnia dubia) (ASTM E729-80)	
	12,340 mg/l (daphnia magna)	
EC50/48h	12,900 mg/l (algae)	
	>10,000 mg/l (ceriodaphnia dubia) (DIN 38412 Teil 11)	
	9,950 mg/l (crustaceans)	
EC50/96h	12,900 mg/l (pimephales promelas) (US EPA method E03-0)	
NOEC	2 mg/l /10d (ceriodaphnia dubia) (ECHA)	
	250 mg/l /120h (danio rerio) (OECD 212)	
ErC50	275 mg/l /72h (algae) (OECD 201)	
ErCx 10%	11.5 mg/l /3d (algae) (OECD 201)	
LC50	1,806 mg/l /10d (ceriodaphnia dubia) (ECHA)	
	454 mg/l /9d (daphnia magna) (ECHA)	

- 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.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 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 Smaller quantities can be disposed of with household waste.
- · 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, ADN, IMDG, IATA	not regulated
14.2 UN proper shipping name ADR, ADN, 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.

(Contd. on page 6)

Revision: 29.07.2022 Version number 1.0 Printing date 29.07.2022

(Contd. of page 5)

· 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

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation

- · 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

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)
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 Flam. Liq. 2: Flammable liquids – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2