Diese Datei enthält die Sicherheitsdatenblätter zu allen Farbtönen, Sets und Displays für den KREUL Pluster & Liner Pen. Sie enthält Bestandteile mit unterschiedlicher Kennzeichnung. Die Erstellung eines gemeinsamen Sicherheitsdatenblattes ist daher nicht möglich. Deshalb finden sich im Anhang die Sicherheitsdatenblätter zu den einzelnen Bestandteilen.

This file contains the safety data sheets for all colors, sets and displays for KREUL Pluster & Liner Pen. It contains components with different labels. It is therefore not possible to create a unique safety data sheet. The safety data sheets for the individual components can be found in the appendix.

Folgende Sets und Displays sind enthalten / Following sets and displays are included:

Artikelnummer / Article number 49830

Handelsname / Trade name KREUL Pluster & Liner Pen 3er Set /

KREUL Puffy Paint and Outliner Pen Set of 3

Bestandteile / Components:

KREUL Pluster & Liner Pen Weiss 29 ml / KREUL Puffy Paint and Outliner Pen White 29 ml KREUL Pluster & Liner Pen Erdbeere 29 ml / KREUL Puffy Paint and Outliner Pen Strawberry 29 ml KREUL Pluster & Liner Pen Schwarz 29 ml / KREUL Puffy Paint and Outliner Pen Black 29 ml

Artikelnummer / Article number 49831

Handelsname / Trade name KREUL Pluster & Liner Pen 4er Set Chalky Moments /

KREUL Puffy Paint and Outliner Pen Set of 4 Chalky Moments

Bestandteile / Components:

KREUL Pluster & Liner Pen White Cotton 29 ml / KREUL Pluster & Liner Pen White Cotton 29 ml

KREUL Pluster & Liner Pen Mademoiselle Rosé 29 ml / KREUL Pluster & Liner Pen Mademoiselle Rosé 29 ml

KREUL Pluster & Liner Pen Mint 29 ml / KREUL Pluster & Liner Pen Mint 29 ml

KREUL Pluster & Liner Pen Noble Nougat 29 ml / KREUL Pluster & Liner Pen Noble Nougat 29 ml



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.02.2023 Version number 3.1 (replaces version 3.0) Revision: 07.02.2023

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

- · 1.1 Product identifier
- · Trade name: KREUL Puffy Paint and Outliner Pen White, Sun Yellow, Pink, Sky Blue, Blue, May Green, Mademoiselle Rosé, Mint, Noble Nougat 29 ml
- · Article number: 49801, 49803, 49806, 49811, 49812, 49815, 49825, 49826, 49827
- 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 based on water, colorants, binders and additives.

· Dangerous components:		
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119489379-17-XXXX	titanium dioxide	2.5-<5%
CAS: 57-55-6 EINECS: 200-338-0 Reg.nr.: 01-2119456809-23-XXXX	Propylene glycol substance with a Community workplace exposure limit	0-<2.5%
CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6 Reg.nr.: 01-2120761540-60-XXXX	1,2-benzisothiazol-3(2H)-one Acute Tox. 1, H330; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.05 %	0.005-<0.05%

(Contd. on page 2)

Printing date 07.02.2023 Version number 3.1 (replaces version 3.0) Revision: 07.02.2023

CAS: 55965-84-9
Index number: 613-167-00-5

| 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
| 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 ≥ 0.6 % Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 % Eye Dam. 1; H318: C ≥ 0.6 % Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 % Skin Sens. 1A; H317: C ≥ 0.0015 %

4 First aid measures

- · 4.1 Description of first aid measures
- · General information: No special measures required.
- · 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.

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

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

No further relevant information available.

5 Firefighting measures

- 5.1 Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- \cdot 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: Wear self-contained 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:
- \cdot 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

(Contd. on page 3)

Version number 3.1 (replaces version 3.0) Printing date 07.02.2023 Revision: 07.02.2023

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

(Contd. of page 2)

8 Exposure controls/personal protection

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
57-55	-6 Propylene glycol
	Long-term value: 474* 10** mg/m³, 150* ppm
	*total vapour and particulates **particulates
· DNEI	e

57-55-6 Propylene glycol

	opylene glycol	
Inhalative	chronic - local effect	10 mg/m³ /long-term (general population)
		10 mg/m³ /long-term (worker)
	chronic - systemic effect	50 mg/m³ /long term (general population)
		168 mg/m³ /long-term (worker)

PNECs

57-55-6 Propylene glycol

water	183 mg/l
freshwater	260 mg/l
marine water	26 mg/l
sewage treatment plant (STP)	20,000 mg/l
freshwater sediment	572 mg/kg
	57.2 mg/kg
soil	50 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.

Do not inhale gases / fumes / aerosols.

Wash hands before breaks and at the end of work.

- 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

· 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 100 °C (7732-18-5 water, distilled, conductivity or of similar

purity)

· Flammability Not applicable.

Lower and upper explosion limit · Lower:

Not determined. · Upper: Not determined. Flash point: >100 °C Decomposition temperature: Not determined.

pH at 20 °C 6-9

Viscosity:

 Kinematic viscosity Not determined. Dynamic: Not determined.

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(Contd. of page 3) · Solubility Fully miscible water: Partition coefficient n-octanol/water (log value) Not determined. Not determined. Vapour pressure: Density and/or relative density Density at 20 °C: 1.1-1.2 g/cm³ Relative density Not determined. · Vapour density Not determined 9.2 Other information Appearance: Fluid · Form: · 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. · 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 Pyrophoric liquids Void Pyrophoric solids Void Self-heating substances and mixtures Void Substances and mixtures, which emit flammable gases in contact with water Void · Oxidising liquids Void Oxidising solids Void Organic peroxides Void Corrosive to metals Void

Void

10 Stability and reactivity

Desensitised explosives

- · 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 v	· LD/LC50 values relevant 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)	
57-55-6 Pr	opylene	glycol	
Oral	LD50	22,000 mg/kg (rat) (ECHA)	
Dermal	LD50	>2,000 mg/kg (rabbit) (ECHA)	
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-chlore	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)	

Skin corrosion/irritation Based on available data, the classification criteria are not met.

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- $\cdot \textbf{Serious eye damage/irritation} \text{ Based on available data, the classification criteria are not met.} \\$
- · 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 properties

None of the ingredients is listed

12 Ecological information

· 12.1 Toxicity

· Aquatic toxicity:		
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)	
57-55-6 Pr	opylene glycol	
	40,613 mg/l (oncorhynchus mykiss) (ECHA)	
LC50/48h	18,340 mg/l (ceriodaphnia dubia) (ECHA)	
	19,300 mg/l (sceletonema costatum) (ECHA)	
NOEC/18h	>20,000 mg/l (pseudomonas putida) (ECHA)	
NOEC/7d	13,020 mg/l (ceriodaphnia dubia) (ECHA)	
NOEC/14d	<5,300 mg/l (sceletonema costatum) (ECHA)	
2634-33-5	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)	
	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 Persistence and degradability

57-55-6 Propylene glycol

 Carbon dioxide production
 81.7 % /28d (OECD 301 F)

 DOC removal
 98.3 % /28d (OECD 301 F)

 Oxygen consumption
 106.8 % /28d (OECD 301 F)

- 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:

Pluster & Liner Pen White, Sun Yellow, May Green:

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Version number 3.1 (replaces version 3.0) Printing date 07.02.2023

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

13 Disposal considerations

- · 13.1 Waste treatment methods
- Recommendation

Smaller quantities can be disposed of with household waste.

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.

4 Transport information	
· 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
- · 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

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 (ÚK REACH) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

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Safety data sheet according to 1907/2006/EC, Article 31

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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 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

* Data compared to the previous version altered.



Revision: 07.02.2023

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.02.2023 Version number 3.1 (replaces version 1.0)

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

- · 1.1 Product identifier
- · Trade name: KREUL Puffy Paint and Outliner Pen Strawberry, Ruby Red, Black, Glow-in-the-dark-yellow, Neon Light, Neon Orange, Neon Pink, White Cotton 29 ml
- · Article number: 49807, 49808, 49819, 49820, 49821, 49822, 49823, 49824
- · 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.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

· Dangerous components:

3 Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Mixture based on water, colorants, binders and additives.

ı	Bungerous components.		
ſ	CAS: 57-55-6	Propylene glycol	0.5-<2.5%
	EINECS: 200-338-0	substance with a Community workplace exposure limit	
	Reg.nr.: 01-2119456809-23-XXXX		
٠			(Contd. on page 2)

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		(Contd. of page
CAS: 2634-33-5	1,2-benzisothiazol-3(2H)-one	0.005-<0.05%
EINECS: 220-120-9	🔗 Acute Tox. 1, H330; 🕎 Eye Dam. 1, H318; 🚯 Aquatic Acute 1,	
Index number: 613-088-00-6	H400; Aquatic Chronic 2, H411; 🕦 Acute Tox. 4, H302; Skin Irrit.	
Reg.nr.: 01-2120761540-60-XXXX	2, H315; Skin Sens. 1, H317	
	Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.05 %	
CAS: 55965-84-9	5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-	0.00025-<0.0015
Index number: 613-167-00-5	3-one (3:1)	
	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 ≥ 0.6 %	
	Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6	
	%	
	Eye Dam. 1; H318: C ≥ 0.6 %	
	Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 %	
	Skin Sens. 1A; H317: C ≥ 0.0015 %	

4 First aid measures

- · 4.1 Description of first aid measures
- · General information: No special measures required.
- · 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.

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: Wear self-contained 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.

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· 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

57-55-6 Propylene glycol WEL Long-term value: 474* 10** mg/m³, 150* ppm	· Ingredients with limit values that require monitoring at the workplace:	
WEL Long-term value: 474* 10** mg/m³, 150* ppm	57-55	5-6 Propylene glycol
*total vapour and particulates **particulates		*total vapour and particulates **particulates

·DNELs

| 57-55-6 Propylene glycol | 10 mg/m³ /long-term (general population) | 10 mg/m³ /long-term (worker)

chronic - systemic effect | 50 mg/m³ /long term (general population)

168 mg/m³ /long-term (worker)

· PNECs

57-55-6 Propylene glycol

water	183 mg/l
freshwater	260 mg/l
	26 mg/l
sewage treatment plant (STP)	
freshwater sediment	572 mg/kg
	57.2 mg/kg
soil	50 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.

Do not inhale gases / fumes / aerosols.

Wash hands before breaks and at the end of work.

- · 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 100 °C (7732-18-5 water, distilled, conductivity or of similar

purity)

Flammability Not applicable.

Lower and upper explosion limit

Lower:
Upper:
Flash point:
Decomposition temperature:
Not determined.
>100 °C
Not determined.

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(Contd. of page 3) pH at 20 °C Viscosity: Kinematic viscosity Not determined. Dynamic: Not determined. Solubility Fully miscible. · water: Partition coefficient n-octanol/water (log value) Not determined. Not determined. Vapour pressure: · Density and/or relative density Density at 20 °C: 1.1-1.2 g/cm³ Relative density Not determined. · Vapour density Not determined 9.2 Other information Appearance: · 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. · 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 Pyrophoric liquids Void Pyrophoric solids Void Self-heating substances and mixtures Void Substances and mixtures, which emit flammable gases Void in contact with water 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 relevant for classification:		
57-55-6 Pi	ropylene	glycol
Oral	LD50	22,000 mg/kg (rat) (ECHA)
Dermal	LD50	>2,000 mg/kg (rabbit) (ECHA)
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-chlore	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)

- · 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.

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- $\cdot \textbf{Respiratory or skin sensitisation} \ \text{Based on available data, the classification criteria are not met.} \\$
- · 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 properties

None of the ingredients is listed.

12 Ecological information

· 12.1 Toxicity

· Aquatic to	cicity:	
57-55-6 Propylene glycol		
LC50/96h	40,613 mg/l (oncorhynchus mykiss) (ECHA)	
LC50/48h	18,340 mg/l (ceriodaphnia dubia) (ECHA)	
ErC50/72h	19,300 mg/l (sceletonema costatum) (ECHA)	
NOEC/18h	>20,000 mg/l (pseudomonas putida) (ECHA)	
NOEC/7d	13,020 mg/l (ceriodaphnia dubia) (ECHA)	
NOEC/14d	<5,300 mg/l (sceletonema costatum) (ECHA)	
	,2-benzisothiazol-3(2H)-one	
LC50/96h	1.6 mg/l (oncorhynchus mykiss)	
EC50/48h	2.94 mg/l (daphnia magna)	
EC50/72h	0.11 mg/l (selenastrum capricornutum)	
EC10/72h	0.04 mg/l (selenastrum capricornutum)	
ErC50/72h	0.11 mg/l (pseudokirchneriella subcapitata)	
NOEC/21d	1.2 mg/l (daphnia)	
NOEC/72h	0.027 mg/l (sceletonema costatum)	
NOEC/28d	0.21 mg/l (oncorhynchus mykiss)	
55965-84-9 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)		
LC50/96h	0.22 mg/l (oncorhynchus mykiss) (RAC)	
	0.1 mg/l (daphnia magna)	
EC50/72h	0.048 mg/l (pseudokirchneriella subcapitata)	
NOEC	0.004 mg/l (daphnia magna) (OECD 211)	
ErC50	0.0049 mg/l /120h (sceletonema costatum)	
NOEC/21d	0.004 mg/l (daphnia)	
NOEC/48d	0.00064 mg/l (sceletonema costatum)	
NOEC/72h	0.0012 mg/l (pseudokirchneriella subcapitata) (OECD 201)	

· 12.2 Persistence and degradability

57-55-6 Propylene glycol

Carbon dioxide production 81.7 % /28d (OECD 301 F)
DOC removal 98.3 % /28d (OECD 301 F)
Oxygen consumption 106.8 % /28d (OECD 301 F)

NOEC/28d | 0.098 mg/l (oncorhynchus mykiss) (OECD 210)

- 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 undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- · 13.1 Waste treatment methods
- Recommendation

Smaller quantities can be disposed of with household waste.

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

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- 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	g to IMO
instruments	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

INDO: 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

ELINUS: European List of Notined 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

LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 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 1
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eve Dam. 1: Serious eve damage/eve irritation – Category

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.