Artikelnummer / Article number	99410
Handelsname / Trade name	KREUL Vergolden mit Blattmetall Set Golden Elegance / KREUL Gilding with Leaf Metal Set Golden Elegance

Dieser Artikel enthält unterschiedliche Bestandteile. Die Erstellung eines gemeinsamen Sicherheitsdatenblattes für diesen Artikel ist daher nicht möglich. Deshalb finden sich im Anhang die Sicherheitsdatenblätter zu den einzelnen Bestandteilen.

This item contains different components. It is therefore not possible to create a unique safety data sheet for this item. The safety data sheets for the individual components can be found in the appendix.

<u>Bestandteile / Components:</u> KREUL Anlegemilch 50 ml / KREUL Primer for Leaf Metal 50 ml KREUL Überzugslack für Blattmetall 50 ml / KREUL Coating Varnish for Leaf Metal 50 ml



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.11.2022

Version number 1.2 (replaces version 1.1)

Revision: 23.11.2022

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

- · Trade name: KREUL Primer for Leaf Metal 20 ml (20 g), 50 ml (51 g)
- · Article number: 99420, 99450
- 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
- Adhesives
- 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
- 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.

3 Composition/information on ingredients

- 3.2 Mixtures
- **Description:**
- Mixture of substances listed below with nonhazardous additions. Mixture based on water, binders and additeves.

(Contd. on page 2)

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Dangerous components:		(Contd. of page
CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6 Reg.nr.: 01-2120761540-60-XXXX	Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.05 %	<0.05%
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; A Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Akin 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 %	

· 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
- · 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:
- Rinse opened eye for several minutes under running water.
- Remove contact lenses.
- 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: 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.
- Dispose of the material collected act
- 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.

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(Contd. of page 2) · 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace · 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: Whitish 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) Not applicable. Flammability · Lower and upper explosion limit · Lower: Not determined. · Upper: Not determined. · Flash point: Not applicable. Decomposition temperature: Not determined. pH at 20 °C 6-9 Viscosity: Kinematic viscosity Not determined. · Dynamic: Not determined. Solubility 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: ~1.03 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.

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		(Contd. of page
Change in condition		
Evaporation rate	Not determined.	
Information with regard to physical hazard clas	SSES	
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

Printing date 23.11.2022

- 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: 2634-33-5 1,2-benzisothiazol-3(2H)-one LD50 Oral 490 mg/kg (rat) Dermal LD50 >2,000 mg/kg (rat) Inhalative LC50/4h 0.05 mg/m³ (ATE) 55965-84-9 5-chloro-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. 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 to	· Aquatic toxicity:		
2634-33-5	1,2-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)		
	(Contd. on page 5)		

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EC10/72h0.04 mg/l (selenastrum capricornutum)ErC50/72h0.11 mg/l (pseudokirchneriella subcapitata)NOEC/2td1.2 mg/l (daphnia)NOEC/72h0.027 mg/l (sceletonema costatum)NOEC/28d0.21 mg/l (oncorhynchus mykiss)55965-84-95-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)LC50/96h0.22 mg/l (oncorhynchus mykiss) (RAC)EC50/72h0.048 mg/l (oncorhynchus mykiss) (RAC)EC50/72h0.048 mg/l (pseudokirchneriella subcapitata)NOEC0.004 mg/l (daphnia magna)EC50/72h0.0049 mg/l (loceletonema costatum)NOEC0.0044 mg/l (daphnia magna) (OECD 211)ErC500.0044 mg/l (daphnia)NOEC/21d0.0064 mg/l (sceletonema costatum)NOEC/22d0.0064 mg/l (sceletonema costatum)NOEC/72h0.0012 mg/l (pseudokirchneriella subcapitata) (OECD 201)NOEC/72b0.0012 mg/l (pseudokirchneriella subcapitata) (OECD 201)NOEC/22d0.098 mg/l (oncorhynchus mykiss) (OECD 210)		(Contd. of pa
NOEC/21d1.2 mg/l (daphnia)NOEC/72h0.027 mg/l (sceletonema costatum)NOEC/28d0.21 mg/l (oncorhynchus mykiss)55965-84-95-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)LC50/96h0.22 mg/l (oncorhynchus mykiss) (RAC)EC50/48h0.1 mg/l (daphnia magna)EC50/72h0.048 mg/l (pseudokirchneriella subcapitata)NOEC0.004 mg/l (daphnia magna) (OECD 211)ErC500.0049 mg/l /120h (sceletonema costatum)NOEC/21d0.004 mg/l (daphnia)NOEC/21d0.0064 mg/l (sceletonema costatum)NOEC/48d0.00064 mg/l (sceletonema costatum)NOEC/72h0.0012 mg/l (pseudokirchneriella subcapitata) (OECD 201)	EC10/72h	0.04 mg/l (selenastrum capricornutum)
NOEC/72h0.027 mg/l (sceletonema costatum)NOEC/28d0.21 mg/l (oncorhynchus mykiss)55965-84-95-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)LC50/96h0.22 mg/l (oncorhynchus mykiss) (RAC)EC50/48h0.1 mg/l (daphnia magna)EC50/72h0.048 mg/l (pseudokirchneriella subcapitata)NOEC0.004 mg/l (daphnia magna) (OECD 211)ErC500.0049 mg/l /120h (sceletonema costatum)NOEC/21d0.0044 mg/l (daphnia)NOEC/21d0.0064 mg/l (sceletonema costatum)NOEC/48d0.00064 mg/l (sceletonema costatum)NOEC/72h0.0012 mg/l (pseudokirchneriella subcapitata) (OECD 201)	ErC50/72h	0.11 mg/l (pseudokirchneriella subcapitata)
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55965-84-9 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)LC50/96h0.22 mg/l (oncorhynchus mykiss) (RAC)EC50/48h0.1 mg/l (daphnia magna)EC50/72h0.048 mg/l (pseudokirchneriella subcapitata)NOEC0.004 mg/l (daphnia magna) (OECD 211)ErC500.0049 mg/l /120h (sceletonema costatum)NOEC/21d0.0044 mg/l (daphnia)NOEC/24d0.00064 mg/l (sceletonema costatum)NOEC/72h0.0012 mg/l (pseudokirchneriella subcapitata) (OECD 201)	NOEC/72h	0.027 mg/l (sceletonema costatum)
LC50/96h0.22 mg/l (oncorhynchus mykiss) (RAC)EC50/48h0.1 mg/l (daphnia magna)EC50/72h0.048 mg/l (pseudokirchneriella subcapitata)NOEC0.004 mg/l (daphnia magna) (OECD 211)ErC500.0049 mg/l /120h (sceletonema costatum)NOEC/21d0.004 mg/l (daphnia)NOEC/48d0.00064 mg/l (sceletonema costatum)NOEC/72h0.0012 mg/l (pseudokirchneriella subcapitata) (OECD 201)	NOEC/28d	0.21 mg/l (oncorhynchus mykiss)
EC50/48h0.1 mg/l (daphnia magna)EC50/72h0.048 mg/l (pseudokirchneriella subcapitata)NOEC0.004 mg/l (daphnia magna) (OECD 211)ErC500.0049 mg/l /120h (sceletonema costatum)NOEC/21d0.004 mg/l (daphnia)NOEC/48d0.00064 mg/l (sceletonema costatum)NOEC/72h0.0012 mg/l (pseudokirchneriella subcapitata) (OECD 201)	55965-84-9	5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
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NOEC0.004 mg/l (daphnia magna) (OECD 211)ErC500.0049 mg/l /120h (sceletonema costatum)NOEC/21d0.004 mg/l (daphnia)NOEC/48d0.00064 mg/l (sceletonema costatum)NOEC/72h0.0012 mg/l (pseudokirchneriella subcapitata) (OECD 201)		
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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)	NOEC	
NOEC/48d 0.00064 mg/l (sceletonema costatum) NOEC/72h 0.0012 mg/l (pseudokirchneriella subcapitata) (OECD 201)	ErC50	0.0049 mg/l /120h (sceletonema costatum)
NOEC/72h 0.0012 mg/l (pseudokirchneriella subcapitata) (OECD 201)	NOEC/21d	0.004 mg/l (daphnia)
	NOEC/48d	0.00064 mg/l (sceletonema costatum)
NOEC/28d 0.098 mg/l (oncorbynchus mykiss) (OECD 210)	NOEC/72h	0.0012 mg/l (pseudokirchneriella subcapitata) (OECD 201)
	NOEC/28d	0.098 mg/l (oncorhynchus mykiss) (OECD 210)
 • PBT: Not applicable. • vPvB: Not applicable. 		applicable. rine disrupting properties The product does not contain substances with endocrine disrupting properties.

- 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

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 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 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.

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Other information	
This information is based on our present know features and shall not establish a legally valid	wledge. However, this shall not constitute a guarantee for any specific prod 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 dama	000
H315 Causes skin irritation.	aye.
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	a effects.
H411 Toxic to aquatic life with long lasting effe	ects.
 Contact: B. Treiber, b.treiber@c-kreul.de Abbreviations and acronyms: ADR: Accord relatif au transport international des marchand Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: Acute IATA: Solve Concenter Code IAS: Chemical Abstracts Service (division of the American Ci LC50: 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. 1: Acute toxicity – Category 1 Skin Corr. 1: Acute toxicity – Category 1 Skin Corr. 1: Ciskin sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1: Acute skin sensitisation – Category 1 Skin Sens. 1: Acute skin sensitisation – Category 1 Acute Chronic 1: Hazardous to the aquatic environment - acut Aquatic Chronic 1: Hazardous to the aquatic environment - acut 	al Substances hemical Society) te aquatic hazard – Category 1 ng-term aquatic hazard – Category 1



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.11.2022

Version number 1.2 (replaces version 1.1)

Revision: 23.11.2022

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

- 1.1 Product identifier
- · Trade name: KREUL Coating Varnish for Leaf Metal 50 ml
- · Article number: 99400
- 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 Lacquer
- 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.

3 Composition/information on ingredients

- 3.2 Mixtures
- Description:

Mixture of substances listed below with nonhazardous additions.

Mixture based on water, binders and additeves.

 Dangerous components: 		
CAS: 57-55-6 EINECS: 200-338-0 Reg.nr.: 01-2119456809-23-XXXX	Propylene glycol substance with a Community workplace exposure limit	2.5-<5%

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		(Contd. of page 1)	
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 Reg.nr.: 01-2120761540-60-XXXX	H400; Aquatic Chronic 2, H411; $$ Acute Tox. 4, H302; Skin Irrit.		
Reg.III 01-2120701540-00-7777	Specific concentration limit: Skin Sens. 1; H317: $C \ge 0.05 \%$		
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		
	Éye 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
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:

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- 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: 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 contaminated material as waste according to item 13.
- 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.
- · 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.

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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.

-	re controls/pers		
· 8.1 Contro	-	sonal protection	
	ol parameters		
· Ingredien	ts with limit values	that require monitoring at	the workplace:
57-55-6 P	ropylene glycol		
		0** mg/m³, 150* ppm	
*tota	al vapour and particu	lates **particulates	
·DNELs			
	ropylene glycol		
Inhalative	chronic - local effec	5 5 (
		10 mg/m ³ /long-term (
	chronic - systemic e	effect 50 mg/m ³ /long term (
		168 mg/m ³ /long-term	(worker)
· PNECs			
	ropylene glycol		
water		183 mg/l	
freshwate		260 mg/l	
marine wa		26 mg/l	
-	eatment plant (STP)	-	
	r sediment	572 mg/kg	
marine se	diment	57.2 mg/kg	
soil	linformer (i Tri i	50 mg/kg	
· Additiona	I information: The I	ists valid during the making	were used as basis.
i ne giove		nbermeable and resistant to	the unequest the cubeter of the unequestion
Due to mi mixture. Selection of Material c The selec from man material ca Penetratio The exact	of the glove material of gloves tion of the suitable g ufacturer to manufa an not be calculated on time of glove ma break through time l	nmendation to the glove ma on consideration of the pen- gloves does not only depen icturer. As the product is a in advance and has therefor iterial nas to be found out by the m	etration times, rates of diffusion and the degradation d on the material, but also on further marks of quality and var preparation of several substances, the resistance of the glo e to be checked prior to the application. anufacturer of the protective gloves and has to be observed.
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	(Contd. of page
pH at 20 °C	6–9
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	F J /
Density at 20 °C:	~1.05 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.	Due doort is made a life within a
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 ga	ases
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

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· 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.
- \cdot 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

57-55-6 P	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-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)	

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 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. 	(Contd. of page 4)
Aspiration hazard Based on available data, the classification criteria are not met. 11.2 Information on other hazards Endocrine disrupting properties	

• Endocrine disrupting properties None of the ingredients is listed.

12 Ecological information

Aquatic tox	pylene glycol				
		ncorhynchus mykiss) (ECHA)			
	18,340 mg/l (ceriodaphnia dubia) (ECHA)				
	5 (1) (1)				
	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)				
		azol-3(2H)-one			
	-	rhynchus mykiss)			
	2.94 mg/l (dap				
	0 ()	enastrum capricornutum)			
	• •	enastrum capricornutum)			
	0 (udokirchneriella subcapitata)			
	1.2 mg/l (daph				
	0.027 mg/l (sceletonema costatum)				
	0.21 mg/l (oncorhynchus mykiss)				
	• •	thyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)			
		orhynchus mykiss) (RAC)			
EC50/48h	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 (p	seudokirchneriella subcapitata) (OECD 201)			
NOEC/28d	0.098 mg/l (on	corhynchus mykiss) (OECD 210)			
12.2 Persis	tence and deg	radability			
57-55-6 Pro	pylene glycol				
Carbon diox	ide production	81.7 % /28d (OECD 301 F)			
DOC remov	al	98.3 % /28d (OECD 301 F)			
Oxygen con	sumption	106.8 % /28d (OECD 301 F)			
12.4 Mobilit 12.5 Result PBT: Not ap vPvB: Not a 12.6 Endoc 12.7 Other a	y in soil No fu s of PBT and oplicable. applicable. rine disrupting adverse effect ecological info				

· 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.

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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.

Transport information		
 14.1 UN number or ID number ADR, ADN, IMDG, IATA 	not regulated	
14.2 UN proper shipping name		
ADR	not regulated	
· 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.	
· 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

- 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
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic

- 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 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

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Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 \cdot * Data compared to the previous version altered.