

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 19.01.2024 Version number 1.1 (replaces version 1.0) Revision: 19.01.2024

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

- · 1.1 Product identifier
- · Trade name:

KREUL Permanent Marker medium Pink (Safety data sheet for the included ink.)

- · Article number: 47617
- · 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: + 44 (0) 171 635 91 91

2 Hazards identification

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



Eye Irrit. 2 H319 Causes serious eye irritation.

2.2 Label elements

EC Regulation 1907/2006 (UK REACH) differentiates between substances, mixtures and articles. In accordance with the definition of articles in UK REACH, the European Writing Instrument Manufacturer's Association (EWIMA) considers writing instruments, marker pens etc. to be articles. However, no safety data sheets are provided for articles. In contrast, safety data sheets are mandatory for substances and mixtures. For this reason, the information in the safety data sheet provided always refers to the basic ink and not to the product as a whole.

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms





GHS02

24207

· Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 Ground and bond container and receiving equipment.

(Contd. on page 2)

(Contd. of page 1)

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

Printing date 19.01.2024 Version number 1.1 (replaces version 1.0) Revision: 19.01.2024

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P243 Take action to prevent static discharges.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- 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 Flam. Liq. 2, H225; Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %	50-100%	
CAS: 1569-02-4 EINECS: 216-374-5 Index number: 603-177-00-8	1-ethoxypropan-2-ol Flam. Liq. 3, H226;	10-25%	
CAS: 26694-69-9 EINECS: 247-906-4	9-(2-(Ethoxycarbonyl)phenyl)-3,6-bis(ethylamino)-2,7-dimethylxanthyliumethylsulfat Acute Tox. 4, H302	2.5-10%	
CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3	1-methoxy-2-propanol Flam. Liq. 3, H226; STOT SE 3, H336	2.5-10%	

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: Immediately remove any clothing soiled by the product.
- · After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

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:

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: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture

Under certain fire conditions, traces of other toxic gases cannot be excluded.

- · 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 Wear protective equipment. Keep unprotected persons away.

(Contd. on page 3)

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

Version number 1.1 (replaces version 1.0) Revision: 19.01.2024 Printing date 19.01.2024

(Contd. of page 2)

· 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose of the material collected according to regulations.

Ensure adequate ventilation.

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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Protect from heat.

· 7.2 Conditions for safe storage, including any incompatibilities

- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from frost.

Protect from heat and direct sunlight.

- Storage class: 3
- · 7.3 Specific end use(s) See chapter 1.2.

8 Exposure controls/personal protection

· 8.1 Control parameters

64-17-5 e	thanol		
WEL Lor	ng-term value: 1920 mg/m³, 1000 ppm		
107-98-2	1-methoxy-2-propanol		
	ort-term value: 560 mg/m³, 150 ppm ng-term value: 375 mg/m³, 100 ppm		
DNELs			
64-17-5 e	thanol		
Oral	long-term exposure-systemic effects	87 mg/kg (general population)	
Dermal	long-term exposure-systemic effects	206 mg/kg bw/d (general population) 343 mg/kg bw/d (worker)	
		1 3 3 1 ()	

Inhalative	long-term exposure-systemic effects	114 mg/m³ (general population) 950 mg/m³ (worker)
107-98-2 1	l-methoxy-2-propanol	
Oral	long-term exposure-systemic effects	33 mg/kg (general population)
Dermal	long-term exposure-systemic effects	183 mg/kg bw/d (general population)
		78 mg/kg bw/d (worker)
مرينة ما منا	1	40.0

		/8 mg/kg bw/d (worker)
Inhalative	long-term exposure-systemic effects	43.9 mg/m³ (general population)
		369 mg/m³ (worker)

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			369 mg/m³ (worker)			
-	PNECs					
	64-17-5 ethanol					
	water	2.75 mg/l				
	freshwater	0.96 mg/l				
	marine water	0.79 mg/l				
	sewage treatment plant (STP)	580 mg/l				
	freshwater sediment	3.6 mg/kg				
	soil	0.63 mg/kg				
	107-98-2 1-methoxy-2-propar	nol				
	water 100 mg/l					

(Contd. on page 4)

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

Version number 1.1 (replaces version 1.0) Printing date 19.01.2024 Revision: 19.01.2024

(Contd. of page 3)

freshwater	10 mg/l
marine water	1 mg/l
sewage treatment plant (STP)	100 mg/l
freshwater sediment	52.3 mg/kg
marine sediment	5.2 mg/kg
soil	4.59 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 section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Do not inhale gases / fumes / aerosols.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use selfcontained respiratory protective device.

· Hand protection



Protective gloves

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

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.

Highly flammable.

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.

For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.4 mm

Value for the permeation: Level ≤ 4h

Eye/face protection



Tightly sealed goggles

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. 78 °C

· Boiling point or initial boiling point and boiling range

Flammability

· Lower and upper explosion limit

· Lower: 1.3 Vol % · Upper: 15 Vol % Flash point: 13 °C 255 °C · Auto-ignition temperature:

Decomposition temperature: Not determined. · pH Not determined

· Viscosity:

· Kinematic viscosity Not determined. · Dynamic: Not determined.

Solubility

water: Not miscible or difficult to mix.

· Partition coefficient n-octanol/water (log value) Not determined.

· Vapour pressure at 20 °C: 59 hPa

(Contd. on page 5)

Revision: 19.01.2024

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

Printing date 19.01.2024 Version number 1.1 (replaces version 1.0)

Contd. of page 4)

Density and/or relative density

Density:
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.

Ignition temperature: Product is not selfigniting.

Explosive properties: Product is not explosive. However, formation of explosive air/

Void

vapour mixtures are possible.

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 Highly flammable liquid and vapour.

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

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 values relevant for classification:				
64-17-5 ethanol				
LD50	10,470 mg/kg (rat) (OECD 403)			
LD50	>2,000 mg/kg (rat)			
	12,800 mg/kg (rabbit)			
LC50/4h	124.7 mg/m³ (rat) (OECD 403)			
1-ethoxy	propan-2-ol			
LD50	4,900 mg/kg (rat)			
LD50	9,500 mg/kg (rab)			
9 9-(2-(Et	hoxycarbonyl)phenyl)-3,6-bis(ethylamino)-2,7-dimethylxanthyliumethylsulfat			
LD50	500 mg/kg (ATE)			
1-methox	y-2-propanol			
LD50	4,016 mg/kg (rat) (EU B.1, ECHA)			
LD50	13,000 mg/kg (rab)			
	>2,000 mg/kg (rat) (EU B.3, ECHA)			
LC50/4h	30.04 mg/m³ (rat) (ECHA)			
	LD50 LD50 LD50 LD50 LD50 LD50 LD50 9 9-(2-(Et LD50 I-methox LD50 LD50			

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation

Causes serious eye irritation.

· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

(Contd. on page 6)

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

Printing date 19.01.2024 Version number 1.1 (replaces version 1.0) Revision: 19.01.2024

(Contd. of page 5)

- · 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:					
64-17-5 etl	64-17-5 ethanol				
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)				
107-98-2 1	-methoxy-2-propanol				
LC50/96h	1,000 mg/l (oncorhynchus mykiss) (OECD 203)				
LC50/48h	21,100–25,900 mg/l (daphnia magna) (ESR-ES-15)				
ErC50	>1,000 mg/l /7d (pseudokirchneriella subcapitata) (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
- · Remark: Toxic for fish
- · Additional ecological information:
- General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

13 Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1263
· 14.2 UN proper shipping name	
· ADR	1263 PAINT, ENVIRONMENTALLY HAZARDOUS
· IMDG	PAINT (9-(2-(Ethoxycarbonyl)phenyl)-3,6-bis(ethylamino)-2,7-dimethylxanthyliumethylsulfat), MARINE POLLUTANT

(Contd. on page 7)

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

Printing date 19.01.2024 Version number 1.1 (replaces version 1.0) Revision: 19.01.2024

(Contd. of page 6) · IATA **PAINT** · 14.3 Transport hazard class(es) · ADR, IMDG 3 Flammable liquids. Class · Label · IATA · Class 3 Flammable liquids. · Label · 14.4 Packing group · ADR, IMDG, IATA II · 14.5 Environmental hazards: Product contains environmentally hazardous substances: 9-(2-(Ethoxycarbonyl)phenyl)-3,6-bis(ethylamino)-2,7dimethylxanthyliumethylsulfat · Marine pollutant: Symbol (fish and tree) Special marking (ADR): Symbol (fish and tree) 14.6 Special precautions for user Warning: Flammable liquids. · Hazard identification number (Kemler code): 33 · EMS Number: F-E,S-E Stowage Category · 14.7 Maritime transport in bulk according to IMO instruments Not applicable. · Transport/Additional information: · Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · Transport category Tunnel restriction code D/E

15 Regulatory information

· UN "Model Regulation":

· Limited quantities (LQ)

· Excepted quantities (EQ)

· IMDG

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

5L

Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN 1263 PAINT, 3, II, ENVIRONMENTALLY HAZARDOUS

Poisons Act			
POISONS ACL			

Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

- · Directive 2012/18/EU
- \cdot Named dangerous substances ANNEX I None of the ingredients is listed.
- Seveso category

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

- · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- $^{\mbox{\scriptsize -}}$ Qualifying quantity (tonnes) for the application of upper-tier requirements $500\ t$

(Contd. on page 8)

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

Revision: 19.01.2024 Version number 1.1 (replaces version 1.0) Printing date 19.01.2024

(Contd. of page 7)

· 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.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· 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)
LCGU Lethel concentration 50 percent

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

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

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3