

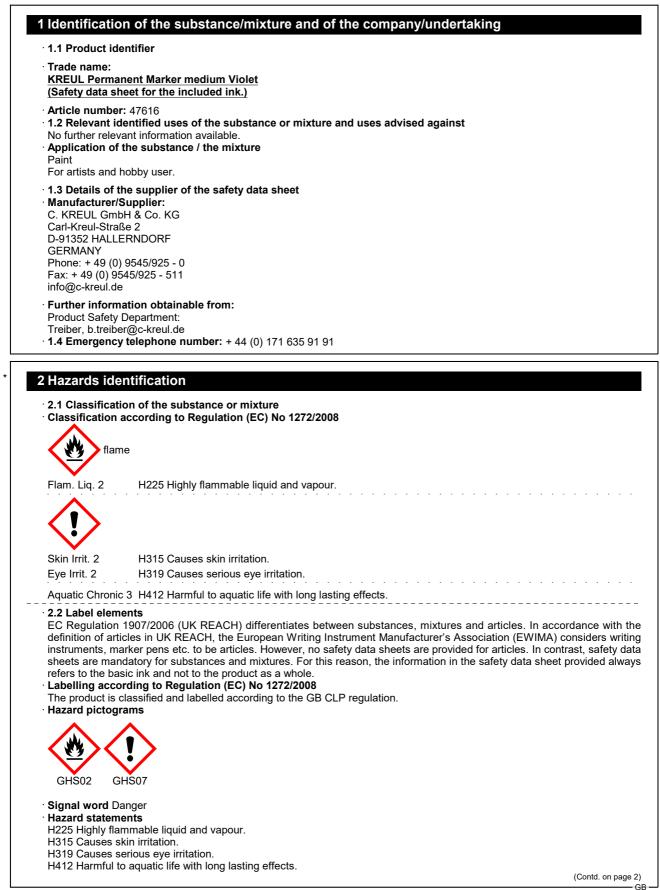
# Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 1.2 (replaces version 1.1)

Revision: 08.03.2023



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·P	recautionary sta	atements
P	101	If medical advice is needed, have product container or label at hand.
P	102	Keep out of reach of children.
P	210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P	233	Keep container tightly closed.
P	243	Take action to prevent static discharges.
P	261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P	280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P	303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P	304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P	305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
		to do. Continue rinsing.
P	312	Call a POISON CENTER/doctor if you feel unwell.
P	337+P313	If eye irritation persists: Get medical advice/attention.
P	403+P235	Store in a well-ventilated place. Keep cool.
P	501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· 2.	3 Other hazards	
·R	esults of PBT a	nd vPvB assessment
·P	BT: Not applicab	le.
_		

· vPvB: Not applicable.

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### 3 Composition/information on ingredients

### · 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

<ul> <li>Dangerous components:</li> </ul>		
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43-XXXX	ethanol	50-<100%
CAS: 1569-02-4 EINECS: 216-374-5 Index number: 603-177-00-8	1-ethoxypropan-2-ol	10-<25%
CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3	1-methoxy-2-propanol	2.5-<10%
CAS: 26694-69-9 EINECS: 247-906-4	9 - (2 - (Ethoxycarbonyl)phenyl)-3,6-bis(ethylamino)-2,7- dimethylxanthyliumethylsulfat Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	
· Additional information: For the w	ording 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: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:
- If skin irritation continues, consult a doctor.
- Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Remove contact lenses.
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:
- If symptoms persist consult doctor.
- Rinse out mouth and then drink plenty of water.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

## **5** Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: 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
- 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.

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## 6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
   Wear protective equipment. Keep unprotected persons away.
   6.2 Environmental precautions:
   Do not allow to enter sewers/ surface or ground water.
   Keep contaminated washing water and dispose of appropriately.
   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.
   Ensure adequate ventilation.
   6.4 Reference to other sections
   See Section 7 for information on safe handling.
   See Section 13 for disposal information.
   7 Handling and storage

   7.1 Precautions for safe handling
   5.2 Four and untilitieting/when until a the underlates.
  - 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.
  - Protect from heat and direct sunlight.
  - Protect from frost.
  - Store in cool, dry conditions in well sealed receptacles.
  - · 7.3 Specific end use(s) See chapter 1.2.

## 8 Exposure controls/personal protection

· 8.1 Control parameters				
· Ingredient	· Ingredients with limit values that require monitoring at the workplace:			
64-17-5 et	64-17-5 ethanol			
WEL Long	g-term value: 1920 m	ng/m³, 1000 ppm		
107-98-2 1	l-methoxy-2-propan	ol		
	WEL Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm Sk			
· DNELs				
64-17-5 et	hanol			
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)	
Inhalative	long-term exposure-systemic effects		114 mg/m³ (general population)	
			950 mg/m³ (worker)	
107-98-2 1	107-98-2 1-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)	
Inhalative	long-term exposure-systemic effects		43.9 mg/m³ (general population)	
			369 mg/m³ (worker)	
PNECs				
64-17-5 et	hanol			
water		2.75 mg/l		
freshwater	freshwater 0.96 mg/l			
marine wa	marine water 0.79 mg/l			
sewage tre	sewage treatment plant (STP) 580 mg/l			
freshwater	sediment	3.6 mg/kg		
soil	soil 0.63			

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nting date 08.03.2023	Version number 1.2 (replaces version 1.1) Revision: 08.03.2023
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107-98-2 1-methoxy-2-propanol	
water 100 mg	g/l
freshwater 10 mg/	1
marine water 1 mg/l	
sewage treatment plant (STP) 100 mg	J/L
freshwater sediment 52.3 m	g/kg
marine sediment 5.2 mg	/kg
soil 4.59 m	
	d during the making were used as basis.
Appropriate engineering controls Na Individual protection measures, suc General protective and hygienic mea Do not eat, drink, smoke or sniff while Immediately remove all soiled and con Wash hands before breaks and at the Avoid contact with the eyes and skin. Respiratory protection: In case of brief exposure or low polle contained respiratory protective device Hand protection Protective gloves	th as personal protective equipment asures: working. Itaminated clothing end of work. ution use respiratory filter device. In case of intensive or longer exposure use self
mixture. Selection of the glove material on cons Material of gloves The selection of the suitable gloves of from manufacturer to manufacturer. material can not be calculated in advar Penetration time of glove material The exact break through time has to be	tion to the glove material can be given for the product/ the preparation/ the chemical sideration of the penetration times, rates of diffusion and the degradation does not only depend on the material, but also on further marks of quality and varies As the product is a preparation of several substances, the resistance of the glove nce and has therefore to be checked prior to the application. e found out by the manufacturer of the protective gloves and has to be observed. <b>nade of the following materials are suitable:</b> ial: ≥ 0.4 mm
Physical and chemical prope 9.1 Information on basic physical ar General Information	
Physical state	Fluid
Colour:	According to product specification
Odour: Odour threshold:	Characteristic Not determined
Melting point/freezing point:	Not determined. Undetermined.
Boiling point or initial boiling point	
Flammability	Highly flammable.
Lower and upper explosion limit	
Lower:	1.3 Vol %
Upper:	15 Vol %
Flash point:	13 °C
Ignition temperature:	255 °C
Decomposition temperature: pH	Not determined. Not determined.

Not determined.

Not determined.

Not determined.

Not miscible or difficult to mix.

- Viscosity:
   Kinematic viscosity

· Dynamic:

- Solubility
- · water: · Partition coefficient n-octanol/water (log value)

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Vapour pressure at 20 °C:	59 hPa
Density and/or relative density	
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of I	health and
environment, and on safety.	
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air
	vapour mixtures are possible.
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard c	lasses
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 flamm	able 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

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• 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.

64-17-5 et	hanol		
Oral	LD50	10,470 mg/kg (rat) (OECD 403)	
Dermal	LD50	>2,000 mg/kg (rat)	
		12,800 mg/kg (rabbit)	
Inhalative	LC50/4h	124.7 mg/m³ (rat) (OECD 403)	
1569-02-4	1-ethoxy	propan-2-ol	
Oral	LD50	4,900 mg/kg (rat)	
Dermal	LD50	9,500 mg/kg (rab)	
107-98-2 1	-methox	y-2-propanol	
Oral	LD50	4,016 mg/kg (rat) (EU B.1, ECHA)	
Dermal	LD50	13,000 mg/kg (rab)	
		>2,000 mg/kg (rat) (EU B.3, ECHA)	
Inhalative	LC50/4h	30.04 mg/m³ (rat) (ECHA)	
26694-69-	9 9-(2-(Et	hoxycarbonyl)phenyl)-3,6-bis(ethylamino)-2,7-dimethylxanthyliumethylsulfat	
Oral	LD50	500 mg/kg (ATE)	
· Skin corre	osion/irrit	tation	

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Serious eye d	amage/irritation
Causes serious	s eye irritation.
· Respiratory or	r skin sensitisation Based on available data, the classification criteria are not met.
Germ cell mut	agenicity Based on available data, the classification criteria are not met.
Carcinogenici	ty Based on available data, the classification criteria are not met.
Reproductive	toxicity Based on available data, the classification criteria are not met.
STOT-single e	<b>exposure</b> Based on available data, the classification criteria are not met.
STOT randata	d avanceurs Read on available data, the eleccification oritoria are not mot

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

•••••	hanol
LC50/96h	14,200 mg/l (pimephales promelas) (US EPA method E03-0)
	13,000 mg/l (oncorhynchus mykiss)
LC50/48h	5,012 mg/l (ceriodaphnia dubia) (ASTM E729-80)
	12,340 mg/l (daphnia magna)
EC50/48h	12,900 mg/l (algae)
	>10,000 mg/l (ceriodaphnia dubia) (DIN 38412 Teil 11)
	9,950 mg/l (crustaceans)
EC50/96h	12,900 mg/l (pimephales promelas) (US EPA method E03-0)
NOEC	2 mg/l /10d (ceriodaphnia dubia) (ECHA)
	250 mg/l /120h (danio rerio) (OECD 212)
ErC50	275 mg/l /72h (algae) (OECD 201)
ErCx 10%	11.5 mg/l /3d (algae) (OECD 201)
LC50	1,806 mg/l /10d (ceriodaphnia dubia) (ECHA)
	454 mg/l /9d (daphnia magna) (ECHA)
	l-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)
12.3 Bioad 12.4 Mobi 12.5 Resu PBT: Not vPvB: Not 12.6 Endo 12.7 Othe	istence and degradability No further relevant information available.         ccumulative potential No further relevant information available.         lity in soil No further relevant information available.         lity of PBT and vPvB assessment         applicable.         : applicable.         ccrine disrupting properties         The product does not contain substances with endocrine disrupting properties.         r adverse effects         Harmful to fish         I ecological information:

## 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.

14.1 UN number or ID number		
ADR, IMDG, IATA	UN1263	
14.2 UN proper shipping name		
ADR	1263 PAINT	
IMDG, IATA	PAINT	

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<ul> <li>14.3 Transport hazard class(es)</li> </ul>	
· ADR, IMDG, IATA	
· Class	3 Flammable liquids.
<sup>.</sup> Label	3
· 14.4 Packing group · ADR, IMDG, IATA	I
· 14.5 Environmental hazards:	Not applicable.
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Stowage Category</li> </ul>	Warning: Flammable liquids. 33 F-E, <u>S-E</u> B
<ul> <li>14.7 Maritime transport in bulk according to IM instruments</li> </ul>	O Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	2 D/E
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1263 PAINT, 3, II

## 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.
- Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- 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.
- H314 Causes severe skin burns and eye damage.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- · Department issuing SDS: Product Safety Department
- Contact: B. Treiber, b.treiber@c-kreul.de

### Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

- IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- DNEL: Derived No-Effect Level (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH)
- LC50: Lethal concentration, 50 percent

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	LD50: Lethal dose, 50 percent
	PBT: Persistent, Bioaccumulative and Toxic
	vPvB: very Persistent and very Bioaccumulative
	Flam. Liq. 2: Flammable liquids – Category 2
	Flam. Liq. 3: Flammable liquids – Category 3
	Acute Tox. 4: Acute toxicity – Category 4
	Skin Corr. 1B: Skin corrosion/irritation – Category 1B
	Skin Irrit. 2: Skin corrosion/irritation – Category 2
	Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
	STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
	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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
•	* Data compared to the previous version altered.

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