Diese Datei enthält die Sicherheitsdatenblätter zu allen Farbtönen, Sets und Displays der KREUL Matt Sprays. 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 Matt Sprays. 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:

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Artikelnummer / Article number Handelsname / Trade name

Bestandteile / Components:



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.03.2023

Version number 3.3 (replaces version 3.2)

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1 Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier · Trade name: KREUL Matt Spray White 200 ml KREUL Matt Spray Yellow 200 ml KREUL Matt Spray Orange 200 ml **KREUL Matt Spray Pink 200 ml** KREUL Matt Spray Violet 200 ml KREUL Matt Spray Light Blue 200 ml KREUL Matt Spray Turquoise 200 ml KREUL Matt Spray Green 200 ml KREUL Matt Spray Gray 200 ml · Article number: 76311, 76312, 76313, 76317, 76318, 76319, 76322, 76323, 76326 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: + 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 Aerosol 2 H223-H229 Flammable aerosol. Pressurised container: May burst if heated. 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. Hazard pictograms GHS02 · Signal word Warning · Hazard statements H223-H229 Flammable aerosol. Pressurised container: May burst if heated. Precautionary statements P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read carefully and follow all instructions. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P260 Do not breathe spray. Use only outdoors or in a well-ventilated area. P271 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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

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· Additional information:

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EUH208 Contains 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**

Vapours may form explosive mixtures with air. This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/ electrical equipment). Take precautionary measures against static discharges.

· 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: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 Reg.nr.: 01-2119472128-37-XXXX	dimethyl ether Flam. Gas 1A, H220; Press. Gas (Comp.), H280	30-<50%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43-XXXX	ethanol	10-<20%
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119489379-17-XXXX	titanium dioxide Carc. 2, H351	1-<15%
CAS: 121-44-8 EINECS: 204-469-4 Index number: 612-004-00-5	triethylamine ♦ Flam. Liq. 2, H225; ♦ Acute Tox. 3, H311; Acute Tox. 3, H331; ♦ Skin Corr. 1A, H314; Eye Dam. 1, H318; ↑ Acute Tox. 4, H302 Specific concentration limit: STOT SE 3; H335: C ≥ 1 %	0.05-<0.3%
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 %	0.00025-<0.0015%

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; consult doctor in case of complaints.

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

Seek immediate medical advice.

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. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Administer medicinal carbon.

A person vomiting while laying on their back should be turned onto their side.

• 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

If swallowed or in case of vomiting, danger of entering the lungs.

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[·] After skin contact:

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5 Firefighting measures

- 5.1 Extinguishing media
- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · 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 Cool endangered receptacles with water spray.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation Use respiratory protective device against the effects of fumes/dust/aerosol. Keep away from ignition sources. Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away. 6.2 Environmental precautions: Keep contaminated washing water and dispose of appropriately. In case of seepage into the ground inform responsible authorities. Do not allow to enter sewers/ surface or ground water. 6.3 Methods and material for containment and cleaning up: Send for recovery or disposal in suitable receptacles. 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 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

· 7.1 Precautions for safe handling Prevent formation of aerosols.

Take note of emission threshold.

Keep away from heat and direct sunlight.

- Ensure good ventilation/exhaustion at the workplace. Information about fire - and explosion protection:
- Do not spray onto a naked flame or any incandescent material.
- Fumes can combine with air to form an explosive mixture.
- Keep ignition sources away Do not smoke. Keep respiratory protective device available.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles:
- Observe official regulations on storing packagings with pressurised containers.
- Information about storage in one common storage facility:
- Do not store together with oxidising and acidic materials.
- Do not store together with alkalis (caustic solutions).
- Further information about storage conditions:
- Store receptacle in a well ventilated area.
- Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
- Keep container tightly sealed. Protect from frost.
- Protect from heat and direct sunlight.
- Storage class: 2B
- · 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:

115-10-6 dimethyl ether

- WEL Short-term value: 958 mg/m³, 500 ppm
 - Long-term value: 766 mg/m³, 400 ppm

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••	nanol		(Contd. of pag
WEL Long	-term value: 1920 m	1g/m ³ , 1000 ppm	
9	riethylamine	<u>,</u>	
	t-term value: 17 mg	/m³. 4 ppm	
	j-term value: 8 mg/n		
Sk	U	<i>i</i> 11	
DNELs			
64-17-5 eth	anol		
		systemic offects	87 mg/kg (general population)
	•	•	206 mg/kg bw/d (general population)
Dennai	iong-term exposure-	systemic enects	343 mg/kg bw/d (worker)
Inholotivo	long-term exposure	avatamia offecto	114 mg/m ³ (general population)
IIIIalalive	iong-term exposure-	systemic enects	
404 44 0 4	viethe develope		950 mg/m³ (worker)
	riethylamine		
	chronic - systemic e		12.1 mg/kg bw/d (Long term)
	acute - systemic eff	ect	12.6 mg/m ³ (Short Term)
	acute - local effect		12.6 mg/m³ (Short Term)
	chronic - local effect		8.4 mg/m ³ (Long term)
	chronic - systemic e	ttect	8.4 mg/m³ (Long term)
PNECs			
64-17-5 eth	nanol		
water		2.75 mg/l	
freshwater		0.96 mg/l	
marine wat	er	0.79 mg/l	
	atment plant (STP)	-	
freshwater		3.6 mg/kg	
soil		0.63 mg/kg	
	riethylamine		
freshwater		0.11 mg/l	
marine wat	er	0.011 mg/l	
	atment plant (STP)	-	
freshwater		1.575 mg/kg	
marine sed		0.158 mg/kg	
soil	s with biological li	0.25 mg/kg	
			ne making were used as basis.
			J
	te engineering con	trols No further c	lata: see item 7
			sonal protective equipment
Appropriat		es, such as pers	•
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Eye/face protection Safety glasses
 Body protection: Protective work clothing

Physical and chemical properties	
9.1 Information on basic physical and chemical propert	ties
General Information	
Physical state	Aerosol
Colour:	According to product specification
Odour:	Specific type
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	Not applicable, as aerosol.
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	-25 °C
Ignition temperature:	240 °C
Decomposition temperature:	Not determined.
pH Viscosity:	Not determined.
	Not determined
Kinematic viscosity Dynamic:	Not determined. Not determined.
Solubility	
water:	Not determined.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 50 °C:	<3,000 hPa
Density and/or relative density	< 5,000 m a
Density at 20 °C:	~0.893 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance: Form:	Aerosol
Important information on protection of health and	
environment, and on safety.	
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive ai
Explosive properties.	vapour mixtures are possible.
Solvent content:	
VOC (EC)	52.69 %
Change in condition	
Evaporation rate	Not applicable.
•	
Information with regard to physical hazard classes Explosives	Void
Explosives Flammable gases	Void
Aerosols	
Aerosols Oxidising gases	Flammable aerosol. Pressurised container: May burst if heated. 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
Corrosive to metals Desensitised explosives	Void 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.

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10.4 Conditions to avoid

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Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

- **10.5 Incompatible materials:** Keep away from oxidizing agents, strong alkaline and acidic materials. • **10.6 Hazardous decomposition products:**
- In case of fire, the following can be released:
- Carbon monoxide and carbon dioxide

11 Toxicological information

• 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· Acute tox	icity Base	ed on available data, the classification criteria are not met.
· LD/LC50 \	values rel	evant for classification:
115-10-6 c		
Inhalative	LC50/4h	308 mg/m ³ (rat)
64-17-5 et	hanol	
Oral	LD50	10,470 mg/kg (rat) (OECD 403)
Dermal	LD50	>2,000 mg/kg (rat)
		12,800 mg/kg (rabbit)
Inhalative	LC50/4h	124.7 mg/m³ (rat) (OECD 403)
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)
121-44-8 t	riethylam	ine
Oral	LD50	730 mg/kg (rat) (OECD 401)
Dermal	LD50	580 mg/kg (rabbit) (OECD 402)
		3 mg/m³ (ATE)
		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)
		0.05 mg/m³ (ATE)
Serious e Respirato Germ cell Carcinoge Reproduc STOT-sin STOT-rep Aspiration 11.2 Infor	ye damag ry or skin mutagen enicity Ba tive toxic gle expos eated exp n hazard I mation or	tation Based on available data, the classification criteria are not met. ge/irritation Based on available data, the classification criteria are not met. a sensitisation Based on available data, the classification criteria are not met. hicity Based on available data, the classification criteria are not met. hised on available data, the classification criteria are not met. hised on available data, the classification criteria are not met. hised on available data, the classification criteria are not met. hised on available data, the classification criteria are not met. hised on available data, the classification criteria are not met. hised on available data, the classification criteria are not met. hised on available data, the classification criteria are not met. Hised on available data, the classification criteria are not met. Hised on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Hised hised h
		ng properties
None of th	e ingredie	ents is listed.

12 Ecological information

· 12.1 Toxicity

· Aquatic to:	•	
115-10-6 di	imethyl ether	
LC50/96h	>4,000 mg/l (fish)	
LC50/48h	>4,000 mg/l (daphnia magna)	
EC50/96h	155 mg/l (algae)	
64-17-5 eth	nanol	
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)	
	(Contd. on p	age

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	(Contd. o
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)
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)
	iethylamine
LC50/96h	24 mg/l (oryzias latipes) (OECD 203)
EC50/48h	200 mg/l (daphnia magna) (OECD 202)
	8 mg/l (pseudokirchneriella subcapitata) (OECD 201)
	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)
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)
	0.004 mg/l (daphnia)
NOEC/48d	0.00064 mg/l (sceletonema costatum)
NOEC/72h	0.0012 mg/l (pseudokirchneriella subcapitata) (OECD 201)
NOEC/28d	0.098 mg/l (oncorhynchus mykiss) (OECD 210)
12.2 Persis	stence and degradability
	iethylamine
	bility 80.3 % /29d (OECD 301 B)
	cumulative potential No further relevant information available.
	ity in soil No further relevant information available.
12.5 Resul PBT: Not a	ts of PBT and vPvB assessment
vPvB: Not a	
	crine disrupting properties The product does not contain substances with endocrine disrupting properties.
	adverse effects

- 12.7 Other adverse effects
 Additional ecological information:
- · General notes:

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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 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 UN1950 · 14.2 UN proper shipping name 1950 AEROSOLS ·IMDG AEROSOLS AEROSOLS, flammable · 14.3 Transport hazard class(es) · Class 2 5F Gases. (Contd. on page 8) GB

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·	
	(Contd. of page
Label	2.1
· Class · Label	2.1 Gases. 2.1
· 14.4 Packing group · ADR, IMDG, IATA	not regulated
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Code	Warning: Gases. - F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category For AEROSOLS with a capacity above 1 litre: Category B. For WAST AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except f division 1.4. For AEROSOLS with a capacity above 1 litre:
• 14.7 Maritime transport in bulk according to IM	Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
instruments	Not applicable.
Transport/Additional information:	
ADR · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
Transport category Tunnel restriction code	2 D
IMDG Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
UN "Model Regulation":	UN 1950 AEROSOLS. 2.1

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 P3a FLAMMABLE AEROSOLS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 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

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H310 Fatal in contact with skin.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage. H319 Causes serious eye irritation.
- H330 Fatal if inhaled.

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H331 Toxic if inhaled.	
H351 Suspected of causing cancer.	
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:	
	tional Comiana of Deparatous
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the Interna Goods by Road)	uonal Carnage of Dangerous
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)	
VOC: Volatile Organic Compounds (USA, EU)	
DNEL: Derived No-Effect Level (UK REACH)	
PNEC: Predicted No-Effect Concentration (UK REACH)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic	
PD1. Persisent, bioaccumulative and toxic	
Flam, Gas 1A: Flammable gases – Category 1A	
Aerosol 2: Aerosols – Category 2	
Press. Gas (Comp.): Gases under pressure – Compressed gas	
Flam. Lig. 2: Flammable liguids – Category 2	
Acute Tox. 4: Acute toxicity – Category 4	
Acute Tox. 2: Acute toxicity – Category 2	
Acute Tox. 3: Acute toxicity – Category 3	
Skin Corr. 1A: Skin corrosion/irritation – Category 1A	
Skin Corr. 1C: Skin corrosion/irritation – Category 1C	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1A: Skin sensitisation – Category 1A	
SAIL Seris. IA: SAIL Berlsinsatulin – Category IA Carc. 2: Carcinogenicity – Category 2	
Card. 2. Claringermity – clargery 2 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	
** Data compared to the previous version altered.	
	GB
	GD



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1 Identificat	tion of the sul	ostance/mixture a	nd of the company/u	ndertaking	
· 1.1 Product	identifier			_	
· Trade name:	KREUL Matt Sp KREUL Matt Sp KREUL Matt Sp KREUL Matt Sp KREUL Matt Sp KREUL Matt Sp	ray Brillant Red 200 m ray Dark Red 200 ml ray Wine Red 200 ml ray Blue 200 ml ray Cobalt Blue 200 m ray Fir Green 200 ml ray Maroon Brown 200 ray Black 200 ml	ļ		
 1.2 Relevant No further rel Application of Lacquer 		available.	76324, 76325, 76327 xture and uses advised ag	gainst	
• 1.3 Details o • Manufacture C. KREUL Gi Carl-Kreul-St D-91352 HAL GERMANY Phone: + 49	of the supplier of er/Supplier: mbH & Co. KG iraße 2 LLERNDORF (0) 9545/925 - 0 9545/925 - 511	the safety data sheet			
	rmation obtainab	le from:			
Treiber, b.trei	ety Department: iber@c-kreul.de ncy telephone nu	mber: + 44 (0) 171 635	91 91		
Treiber, b.trei · 1.4 Emergen	iber@c-kreul.de	mber: + 44 (0) 171 635	91 91		
Treiber, b.trei • 1.4 Emergen 2 Hazards id • 2.1 Classific • Classificatio	iber@c-kreul.de ncy telephone nu dentification sation of the subs on according to R				
Treiber, b.trei • 1.4 Emergen 2 Hazards id • 2.1 Classific • Classificatio	iber@c-kreul.de ncy telephone nu dentification ation of the subs	tance or mixture			
Treiber, b.trei • 1.4 Emergen 2 Hazards id • 2.1 Classific • Classificatio file	iber@c-kreul.de ncy telephone nu dentification ation of the subs on according to R ame	tance or mixture egulation (EC) No 127		ated.	
Treiber, b.trei • 1.4 Emergen 2 Hazards id • 2.1 Classific • Classificatio • Classific	iber@c-kreul.de ncy telephone nu dentification ation of the subs on according to R ame 223-H229 Flamma ements cording to Regul is classified and la	tance or mixture egulation (EC) No 127	2/2008 d container: May burst if hea	ated.	
Treiber, b.trei • 1.4 Emergen 2 Hazards id • 2.1 Classificatio • Class	iber@c-kreul.de ncy telephone nu dentification ation of the subs on according to R ame 223-H229 Flamma ements cording to Regul is classified and la	tance or mixture egulation (EC) No 127 ble aerosol. Pressurise ation (EC) No 1272/20	2/2008 d container: May burst if hea	ated.	
Treiber, b.trei • 1.4 Emergen 2 Hazards id • 2.1 Classific • Classificatio • Classific	iber@c-kreul.de ncy telephone nu dentification sation of the subs on according to R ame 223-H229 Flamma ements scording to Regul is classified and la ograms	tance or mixture egulation (EC) No 127 ble aerosol. Pressurise ation (EC) No 1272/20	2/2008 d container: May burst if hea	ated.	
Treiber, b.trei • 1.4 Emergen 2 Hazards id • 2.1 Classific • Classificatio • Classific	iber@c-kreul.de ncy telephone nu dentification sation of the subs on according to R ame 223-H229 Flamma exercts cording to Regul is classified and la ograms Warning ements Flammable aeroso ry statements	tance or mixture legulation (EC) No 127 able aerosol. Pressurise ation (EC) No 1272/20 belled according to the	2/2008 d container: May burst if hea 08 GB CLP regulation.	ated.	
Treiber, b.trei • 1.4 Emergen 2 Hazards id • 2.1 Classificatio • Class	iber@c-kreul.de ncy telephone num dentification ation of the subs on according to R ame 223-H229 Flamma conding to Regul is classified and la ograms Warning ements Flammable aeroso ry statements If medical advice is Keep out of reach Read carefully and Keep away from h Do not spray on an	tance or mixture legulation (EC) No 127 able aerosol. Pressurise ation (EC) No 1272/20 belled according to the belled according to the s needed, have product of children. I follow all instructions. eat, hot surfaces, spark o open flame or other ig urn, even after use.	2/2008 d container: May burst if hea 08 GB CLP regulation. : May burst if heated. container or label at hand. s, open flames and other ig		moking.

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· Additional information:

EUH208 Contains 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

Vapours may form explosive mixtures with air. This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/ electrical equipment). Take precautionary measures against static discharges.

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: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 Reg.nr.: 01-2119472128-37-XXXX	dimethyl ether Flam. Gas 1A, H220; Press. Gas (Comp.), H280	30-<50%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43-XXXX	ethanol	10-<20%
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 %	0.00025-<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: Immediately remove any clothing soiled by the product.
- · After inhalation:
- Supply fresh air; consult doctor in case of complaints.
- In case of unconsciousness place patient stably in side position for transportation.
- Seek immediate medical advice.
- 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. If symptoms persist, consult a doctor.
- After swallowing:
- Rinse out mouth and then drink plenty of water.
- Administer medicinal carbon.

A person vomiting while laying on their back should be turned onto their side.

- Seek immediate medical advice.
- 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
- If swallowed or in case of vomiting, danger of entering the lungs.

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 Cool endangered receptacles with water spray.

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- GB

GB

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

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	(Contd. of page 2)
6 Accidental release measures	
· 6.1 Personal precautions, protective equipment and emergency procedures	
Ensure adequate ventilation	
Use respiratory protective device against the effects of fumes/dust/aerosol.	
Keep away from ignition sources.	
Mount respiratory protective device.	
Wear protective equipment. Keep unprotected persons away.	
 6.2 Environmental precautions: Keep contaminated washing water and dispose of appropriately. 	
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).	
Send for recovery or disposal in suitable receptacles.	
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 7 for information on personal protection equipment.	
See Section 13 for disposal information.	
7 Handling and storage	
· 7.1 Precautions for safe handling	
Prevent formation of aerosols.	
Take note of emission threshold.	
Keep away from heat and direct sunlight. Ensure good ventilation/exhaustion at the workplace.	
· Information about fire - and explosion protection:	
Do not spray onto a naked flame or any incandescent material.	
Fumes can combine with air to form an explosive mixture.	
Keep ignition sources away - Do not smoke.	
Keep respiratory protective device available.	
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50° pierce or burn, even after use.	C, i.e. electric lights. Do not
7.2 Conditions for safe storage, including any incompatibilities	
· Storage:	

- · Requirements to be met by storerooms and receptacles:
- Observe official regulations on storing packagings with pressurised containers.
- Information about storage in one common storage facility: Do not store together with oxidising and acidic materials.
- Do not store together with alkalis (caustic solutions).
- · Further information about storage conditions:
- Store receptacle in a well ventilated area.
- Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
- Keep container tightly sealed.
- Storage class: 2B
- · 7.3 Specific end use(s) See chapter 1.2.

8 Exposure controls/personal protection

8.1 Control parameters

•		that require mor	onitoring at the workplace:	
	dimethyl ether			
	rt-term value: 958 m			
Long	g-term value: 766 mg	g/m³, 400 ppm		
64-17-5 et	thanol			
WEL Long	g-term value: 1920 n	ng/m³, 1000 ppm		
DNELs				
64-17-5 et	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)	
Inhalative	long-term exposure-	systemic effects	114 mg/m³ (general population)	
			950 mg/m ³ (worker)	
PNECs				
64-17-5 et	thanol			
water		2.75 mg/l		
freshwater	r	0.96 mg/l		
			(Contd. o	n pag

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Ignition temperature: · Decomposition temperature:

Viscosity: Kinematic viscosity

Density at 20 °C:
 Relative density

Vapour density

Partition coefficient n-octanol/water (log value)
Vapour pressure at 50 °C:
Density and/or relative density

рΗ

· Dynamic:

Solubility · water:

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GB

	(Contd. of page 3)
marine water 0.79 mg/l	
sewage treatment plant (STP) 580 mg/l	
freshwater sediment 3.6 mg/kg	
soil 0.63 mg/kg	
· Ingredients with biological limit values: -	
· Additional information: The lists valid during the ma	aking were used as basis.
· 8.2 Exposure controls	-
• Appropriate engineering controls No further data; s	see item 7
· Individual protection measures, such as personal	
· General protective and hygienic measures:	h
The usual precautionary measures are to be adhered	to when handling chemicals.
Do not eat, drink, smoke or sniff while working.	-
Wash hands before breaks and at the end of work.	
Do not inhale gases / fumes / aerosols.	
Respiratory protection:	
Not necessary if room is well-ventilated.	iratory filter device. In ease of intensive or longer expedure use self
contained respiratory protective device.	iratory filter device. In case of intensive or longer exposure use self
· Hand protection	
The glove material has to be impermeable and resista	ant to the product/ the substance/ the preparation.
	/e material can be given for the product/ the preparation/ the chemica
mixture.	
	e penetration times, rates of diffusion and the degradation
Material of gloves	
	epend on the material, but also on further marks of quality and varies
material can not be calculated in advance and has the	t is a preparation of several substances, the resistance of the glove
Penetration time of glove material	eleiore to be checked phor to the application.
	the manufacturer of the protective gloves and has to be observed.
· For the permanent contact gloves made of the fol	
PVC or PE gloves	0
Value for the permeation: Level ≤ 8 h	
Recommended thickness of the material: \geq - mm	
• As protection from splashes gloves made of the f	ollowing materials are suitable:
Butyl rubber, BR	
Recommended thickness of the material: ≥ 0.4 mm Value for the permeation: Level ≤ 120 - 240 min	
• Eye/face protection Safety glasses	
• Body protection: Protective work clothing	
Physical and chemical properties	
• 9.1 Information on basic physical and chemical pr	conarties
· General Information	openies
· Physical state	Aerosol
· Colour:	According to product specification
· Odour:	Specific type
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling ra	nge Not applicable, as aerosol.
Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
Flash point:	-25 °C
· Ignition temperature:	240 °C

Not determined.

Not determined.

Not determined.

Not determined.

Not determined.

Not determined. <3,000 hPa

Not determined.

0.846 g/cm³ Not determined.

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	(Contd. of page
9.2 Other information	
Appearance:	
Form:	Aerosol
Important information on protection of he	alth and
environment, and on safety.	
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive ai
	vapour mixtures are possible.
Solvent content:	
VOC (EC)	53.06 %
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical hazard cla	2022
Explosives	Void
Flammable gases	Void
Aerosols	Flammable aerosol. Pressurised container: May burst if heated
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 flammal	ble 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

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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

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

- 10.5 Incompatible materials: Keep away from oxidizing agents, strong alkaline and acidic materials.
- 10.6 Hazardous decomposition products:
- In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

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 rel	levant for classification:
115-10-6 c	dimethyl e	ether
Inhalative	LC50/4h	308 mg/m ³ (rat)
64-17-5 et	hanol	
Oral	LD50	10,470 mg/kg (rat) (OECD 403)
Dermal	LD50	>2,000 mg/kg (rat)
		12,800 mg/kg (rabbit)
Inhalative	LC50/4h	124.7 mg/m ³ (rat) (OECD 403)
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)
· Skin corre	osion/irrit	tation Based on available data, the classification criteria are not met.
Serious e	ye damag	ge/irritation Based on available data, the classification criteria are not met.
· Respirato	ry or skin	n sensitisation Based on available data, the classification criteria are not met.
· Germ cell	mutagen	iicity Based on available data, the classification criteria are not met.
•		used on available data, the classification criteria are not met.
· Reproduce	tive toxic	ity Based on available data, the classification criteria are not met.
· STOT-sing	gle expos	sure Based on available data, the classification criteria are not met.

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(Contd. of page 5) • 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: 115-10-6 dimethyl ether LC50/96h >4,000 mg/l (fish) LC50/48h >4,000 mg/l (daphnia magna) EC50/96h 155 mg/l (algae) 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) 1,806 mg/l /10d (ceriodaphnia dubia) (ECHA) LC50 454 mg/l /9d (daphnia magna) (ECHA) 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) EC50/48h 0.1 mg/l (daphnia magna) 0.048 mg/l (pseudokirchneriella subcapitata) EC50/72h 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) NOEC/28d 0.098 mg/l (oncorhynchus mykiss) (OECD 210) **12.2 Persistence and degradability** No further relevant information available. · 12.3 Bioaccumulative potential No further relevant information available. · 12.4 Mobility in soil No further relevant information available. 12.5 Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties. 12.7 Other adverse effects · Additional ecological information: General notes: Do not allow 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 Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

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Recommendation: Disposal must be made according to official regulations.

14 Transport information

· 14.1 UN number or ID number

ADR, IMDG, IATA

UN1950

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14.2 UN proper shipping name	
ADR	1950 AEROSOLS
IMDG	AEROSOLS
ΙΑΤΑ	AEROSOLS, flammable
14.3 Transport hazard class(es)	
ADR	
Class	2 5F Gases.
Label	2.1
IMDG, IATA	
Class Label	2.1 Gases. 2.1
14.4 Packing group ADR, IMDG, IATA	not regulated
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Gases.
Hazard identification number (Kemler code):	-
EMS Number:	F-D,S-U
Stowage Code	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category For AEROSOLS with a capacity above 1 litre: Category B. For WAS' AEROSOLS: Category C, Clear of living quarters.
Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except 1
	division 1.4.
	For AEROSOLS with a capacity above 1 litre:
	Segregation as for the appropriate subdivision of class 2.
	For WASTE AEROSOLS:
	Segregation as for the appropriate subdivision of class 2.
14.7 Maritime transport in bulk according to IM	
instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
Transport actorson	Not permitted as Excepted Quantity
Transport category Tunnel restriction code	2 D
IMDG	1
Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E0
Excepted quantities (EQ)	Not permitted as Excepted Quantity
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

15 Regulatory information

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

· Directive 2012/18/EU

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Named dangerous substances - ANNEX I None of the ingredients is listed.

• Seveso category P3a FLAMMABLE AEROSOLS

- · Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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Other informatio	n
	ased on our present knowledge. However, this shall not constitute a guarantee for any specific pro
features and shall not	establish a legally valid contractual relationship.
Relevant phrases	
H220 Extremely flamn	nable gas.
H225 Highly flammabl	le liguid and vapour.
	nder pressure; may explode if heated.
H301 Toxic if swallow	
H310 Fatal in contact	
	skin burns and eye damage.
H317 May cause an a	
H318 Causes serious	
H319 Causes serious	
H330 Fatal if inhaled.	eye intation.
	untin life
H400 Very toxic to aqu	
H410 Very toxic to aqu	uatic life with long lasting effects.
EINECS: European Inventory ELINCS: European List of No	port Association System of Classification and Labelling of Chemicals / of Existing Commercial Chemical Substances trified Chemical Substances rvice (division of the American Chemical Society) ounds (USA, EU) // (UK REACH) Concentration (UK REACH)
LD50: Lethal dose, 50 percer	nt
PBT: Persistent, Bioaccumula	
vPvB: very Persistent and ver Flam. Gas 1A: Flammable ga	
Aerosol 2: Aerosols – Catego	
	under pressure – Compressed gas
Flam. Liq. 2: Flammable liquid Acute Tox. 3: Acute toxicity –	
Acute Tox. 2: Acute toxicity –	
Skin Corr. 1C: Skin corrosion	
	nage/eye irritation – Category 1
Eye Irrit. 2: Serious eye dama Skin Sens. 1A: Skin sensitisa	age/eye irritation – Category 2
	to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous	is to the aquatic environment - long-term aquatic hazard – Category 1 the previous version altered.



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1 Identific	ation of the substance/mixture and of the company/undertaking
· 1.1 Produ	ct identifier
· Trade nan	ne: KREUL Matt Spray Silver 200 ml
	KREUL Matt Spray Gold 200 ml
	mber: 76361, 76362
	ant identified uses of the substance or mixture and uses advised against relevant information available.
	on of the substance / the mixture
Lacquer	
	and hobby user.
	s of the supplier of the safety data sheet urer/Supplier:
	GmbH & Co. KG
Carl-Kreul-	
D-91352 H GERMAN	IALLERNDORF
Phone: + 4	19 (0) 9545/925 - 0
	(0) 9545/925 - 511
info@c-kre	
	formation obtainable from: afety Department:
Treiber, b.	treiber@c-kreul.de
· 1.4 Emerg	ency telephone number: + 44 (0) 171 635 91 91
2 Hazards	identification
	fication of the substance or mixture tion according to Regulation (EC) No 1272/2008
Classifica	
JU.	fame
<u> 83</u>	flame
	H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
· 2.2 Label	elements according to Regulation (EC) No 1272/2008
	ct is classified and labelled according to the GB CLP regulation.
Hazard pi	
\wedge	
JHz.	
GHS02	
 Signal wo Hazard sta 	
	9 Extremely flammable aerosol. Pressurised container: May burst if heated.
· Precautio	nary statements
P101 P102	If medical advice is needed, have product container or label at hand.
P102 P103	Keep out of reach of children. Read carefully and follow all instructions.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 P251	Do not spray on an open flame or other ignition source.
P251 P260	Do not pierce or burn, even after use. Do not breathe spray.
P271	Use only outdoors or in a well-ventilated area.
P410+P41 P501	2 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container in accordance with local/regional/national/international regulations.
	l information:
EUH208 C	contains 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allerg
re · 2.3 Other	eaction.
	f PBT and vPvB assessment
• PBT: Not a	applicable.
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· vPvB: Not applicable.

3 Composition/information on ingredients

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

Dangerous components:		
CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 Reg.nr.: 01-2119472128-37-XXXX	dimethyl ether Flam. Gas 1A, H220; Press. Gas (Comp.), H280	30-<50%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43-XXXX	ethanol	10-<20%
CAS: 121-44-8 EINECS: 204-469-4 Index number: 612-004-00-5	triethylamine Flam. Liq. 2, H225; Acute Tox. 3, H311; Acute Tox. 3, H331; Skin Corr. 1A, H314; Eye Dam. 1, H318; Acute Tox. 4, H302 Specific concentration limit: STOT SE 3; H335: C ≥ 1 %	0.05-<0.3%
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 %	0.00025-<0.00159

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

- · After inhalation: Seek immediate medical advice.
- After skin contact:
- Wash with water and acidic soap.
- If skin irritation continues, consult a doctor.
- After eye contact: Remove contact lenses.
- After swallowing:
- Administer medicinal carbon.
- A person vomiting while laying on their back should be turned onto their side.
- 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
- If swallowed or in case of vomiting, danger of entering the lungs.

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.
- During heating or in case of fire poisonous gases are produced.
- 5.3 Advice for firefighters
- · Protective equipment:
- Wear self-contained respiratory protective device.
- Mouth respiratory protective device.
- Additional information Cool endangered receptacles with water spray.

6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation
- Use respiratory protective device against the effects of fumes/dust/aerosol.
- Keep away from ignition sources.
- Mount respiratory protective device.
- Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:
- Keep contaminated washing water and dispose of appropriately.

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freshwater

marine water

freshwater sediment

sewage treatment plant (STP)

0.96 mg/l

0.79 mg/l

580 mg/l

3.6 mg/kg

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

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· 6.3 Methods and material for containment and cleaning up: Send for recovery or disposal in suitable receptacles. 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 8 for information on personal protection equipment. See Section 13 for disposal information. 7 Handling and storage · 7.1 Precautions for safe handling Take note of emission threshold. Keep away from heat and direct sunlight. Ensure good ventilation/exhaustion at the workplace. Information about fire - and explosion protection: Do not spray onto a naked flame or any incandescent material. Fumes can combine with air to form an explosive mixture. Keep ignition sources away - Do not smoke. Keep respiratory protective device available. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use. 7.2 Conditions for safe storage, including any incompatibilities Storage: Requirements to be met by storerooms and receptacles: Observe official regulations on storing packagings with pressurised containers. Information about storage in one common storage facility: Not required. · Further information about storage conditions: Store receptacle in a well ventilated area. Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting. Keep container tightly sealed. Storage class: 2B · 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: 115-10-6 dimethyl ether WEL Short-term value: 958 mg/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm 64-17-5 ethanol WEL Long-term value: 1920 mg/m³, 1000 ppm 121-44-8 triethylamine WEL Short-term value: 17 mg/m³, 4 ppm Long-term value: 8 mg/m³, 2 ppm Sk 64-17-5 ethanol Oral long-term exposure-systemic effects 87 mg/kg (general population) long-term exposure-systemic effects Dermal 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) 121-44-8 triethylamine Dermal chronic - systemic effect 12.1 mg/kg bw/d (Long term) Inhalative acute - systemic effect 12.6 mg/m³ (Short Term) 12.6 mg/m³ (Short Term) acute - local effect chronic - local effect 8.4 mg/m³ (Long term) 8.4 mg/m³ (Long term) chronic - systemic effect · PNECs 64-17-5 ethanol water 2.75 mg/l

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soil 0.63 mg/kg 121-44-8 triethylamine	
freshwater 0.11 mg/l	
marine water 0.011 mg/l	
sewage treatment plant (STP) 100 mg/l	
freshwater sediment 1.575 mg/kg	
marine sediment 0.158 mg/kg	
soil 0.25 mg/kg Ingredients with biological limit values: -	
Additional information: The lists valid during the making w	vere used as basis.
8.2 Exposure controls Appropriate engineering controls No further data; see ite Individual protection measures, such as personal prote General protective and hygienic measures: Do not eat, drink, smoke or sniff while working.	
Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols.	
contained respiratory protective device.	filter device. In case of intensive or longer exposure use se
Hand protection The glove material has to be impermeable and resistant to Due to missing tests no recommendation to the glove ma mixture.	the product/ the substance/ the preparation. terial can be given for the product/ the preparation/ the chemic
Selection of the glove material on consideration of the pene Material of gloves	
The selection of the suitable gloves does not only depend from manufacturer to manufacturer. As the product is a material can not be calculated in advance and has therefore Penetration time of glove material	I on the material, but also on further marks of quality and vari- 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. g materials are suitable:
The exact break through time has to be found out by the ma For the permanent contact gloves made of the following PVC or PE gloves	
For the permanent contact gloves made of the following PVC or PE gloves Value for the permeation: Level ≤ 8 h	
For the permanent contact gloves made of the following PVC or PE gloves Value for the permeation: Level ≤ 8 h Recommended thickness of the material: \geq - mm	g materials are suitable:
For the permanent contact gloves made of the following PVC or PE gloves Value for the permeation: Level ≤ 8 h Recommended thickness of the material: \geq - mm As protection from splashes gloves made of the following the following splashes gloves made of the following splashes gloves made splashes gloves made of the following splashes gloves made of the following splashes gloves made splashes gloves glov	g materials are suitable:
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Vapour density	Not determined.
9.2 Other information	
· Appearance:	
Form:	Aerosol
Important information on protection of hea	alth and
environment, and on safety.	
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive ai
	vapour mixtures are possible.
· Solvent content:	· ·
· VOC (EC)	64.05 %
· Change in condition	
· Evaporation rate	Not applicable.
Information with regard to physical hazard clas	205
· Explosives	Void
· Flammable gases	Void
	Extremely flammable aerosol. Pressurised container: May burs
Aerosois	if heated.
· 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	
in contact with water	Void
· Oxidising liquids	Void
• Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void
Desensuseu explosives	VOIU

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

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

10.5 Incompatible materials: Keep away from oxidizing agents, strong alkaline and acidic materials.

10.6 Hazardous decomposition products:

In case of fire, the following can be released: Carbon monoxide and carbon dioxide

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	values rel	levant for classification:
115-10-6 c	dimethyl e	ether
Inhalative	LC50/4h	308 mg/m ³ (rat)
64-17-5 et	hanol	
Oral	LD50	10,470 mg/kg (rat) (OECD 403)
Dermal	LD50	>2,000 mg/kg (rat)
		12,800 mg/kg (rabbit)
Inhalative	LC50/4h	124.7 mg/m³ (rat) (OECD 403)
121-44-8 t	riethylam	ine
Oral	LD50	730 mg/kg (rat) (OECD 401)
Dermal	LD50	580 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4h	3 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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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

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12.1 Toxic	·
• Aquatic to:	· ·
	imethyl ether
	>4,000 mg/l (fish)
	>4,000 mg/l (daphnia magna)
EC50/96h	155 mg/l (algae)
64-17-5 eth	
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)
121-44-8 tr	iethylamine
LC50/96h	24 mg/l (oryzias latipes) (OECD 203)
EC50/48h	200 mg/l (daphnia magna) (OECD 202)
EC50/72h	8 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)
LC50/96h	0.22 mg/l (oncorhynchus 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)
	0.0012 mg/l (pseudokirchneriella subcapitata) (OECD 201)
NOEC/28d	0.098 mg/l (oncorhynchus mykiss) (OECD 210)
12.2 Persis	stence and degradability
	iethylamine
	bility 80.3 % /29d (OECD 301 B)
	cumulative potential No further relevant information available.
12.4 Mobil	ity in soil No further relevant information available.
12.5 Resul	ts of PBT and vPvB assessment
PBT: Not a	
vPvB: Not	applicable. crine disrupting properties The product does not contain substances with endocrine disrupting properties.
	adverse effects
	ecological information:
General no	otes:
Do not allow	w undiluted product or large quantities of it to reach ground water, water course or sewage system.

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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	UN1950
14.2 UN proper shipping name ADR IMDG IATA	1950 AEROSOLS AEROSOLS AEROSOLS, flammable
14.3 Transport hazard class(es)	
ADR	
Class Label	2 5F Gases. 2.1
IMDG, IATA	
Class Label	2.1 Gases. 2.1
14.4 Packing group ADR, IMDG, IATA	not regulated
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Code Segregation Code	Warning: Gases. - F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category For AEROSOLS with a capacity above 1 litre: Category B. For WAS' AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except f division 1.4. For AEROSOLS with a capacity above 1 litre:
	Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
14.7 Maritime transport in bulk according to IM	0
instruments	Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
Transport category Tunnel restriction code	Not permitted as Excepted Quantity 2 D
IMDG Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

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15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU

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- Named dangerous substances ANNEX I None of the ingredients is listed.
- Seveso category P3a FLAMMABLE AEROSOLS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 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

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H310 Fatal in contact with skin.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H331 Toxic if inhaled
- 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) VOC: Volatile Organic Compounds (USA, EU) DNEL: Derived No-Effect Level (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Gas 1A: Flammable gases – Category 1A

Aerosol 1: Aerosols - Category 1 Press, Gas (Comp.): Gases under pressure – Compressed gas Flam. Liq. 2: Flammable liquids – Category 2

- Flam. Liq. 2: Flammable liquids Category 2 Acute Tox. 4: Acute toxicity Category 4 Acute Tox. 2: Acute toxicity Category 2 Acute Tox. 3: Acute toxicity Category 3 Skin Corr. 1A: Skin corrosion/irritation Category 1A Skin Corr. 1C: Skin corrosion/irritation Category 1C Eye Dam. 1: Serious eye damage/eye irritation Category 2 Skin Serious eye damage/eye irritation Category 2 Skin Serious eye damage/eye irritation Category 2 Skin Serious eye damage/eye irritation Category 2

- 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
- * * Data compared to the previous version altered.

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