

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Melflock® SRT

Version 8.1 / REG\_EU  
Revision Date: 26.11.2020

Specification: 132722  
Material no.:

Date of first issue: 26.11.2020  
Print Date: 27.11.2020

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : Melflock® SRT

Registration number : if available listed in Chapter. 3  
CAS-No. : 65545-83-7

Unique Formula Identifier (UFI) : NQG0-Y004-W00D-3EEU

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-stance/Mixture : fixative and flocculant

#### 1.3 Details of the supplier of the safety data sheet

Company : AlzChem Trostberg GmbH  
Dr.-Albert-Frank-Str. 32  
83308 Trostberg, Germany

Telephone : +49 8621 86-3351

E-mail address of person responsible for the SDS : alz-pst@alzchem.com

#### 1.4 Emergency telephone number

Emergency telephone number : +49 8621 86-2776  
AlzChem Trostberg GmbH, Fire Brigade

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Long-term (chronic) aquatic hazard, Category 3 : H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P273 Avoid release to the environment.

**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

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### Additional Labelling

EUH208: Contains formaldehyde. May produce an allergic reaction.

### 2.3 Other hazards

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Cationic polymer  
Contents in water  
ca.  
30 %

### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Guanidine, cyano-, polymer with ammonium chloride ((NH <sub>4</sub> )Cl) and formaldehyde	55295-98-2 686-887-0	Aquatic Chronic 2; H411	<= 50
Formaldehyde	50-00-0 200-001-8 01-2119488953-20-XXXX	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 Skin Corr. 1B; H314 Skin Sens. 1; H317 Carc. 1B; H350 Muta. 2; H341	< 0,1

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Seek medical advice in case of symptoms caused by eye or skin contact, inhalation or swallowing.
- If inhaled : Move to fresh air.
- In case of skin contact : Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water.
- In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.

### 4.2 Most important symptoms and effects, both acute and delayed

|| Symptoms : To the best of our knowledge, experiences about acute systemic health effects in human beings are not available.

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### 4.3 Indication of any immediate medical attention and special treatment needed

|| Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray, foam, CO<sub>2</sub>, dry powder.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : None known.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear personal protective equipment; see section 8.  
Ensure adequate ventilation.

### 6.2 Environmental precautions

Environmental precautions : Product or extinguishing water with product must not be allowed to enter soil, sewers or natural bodies of water.  
Shut off source of leak if safe to do so.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

|| For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Provide appropriate exhaust ventilation at machinery.  
Handle in accordance with good industrial hygiene and safety practice.  
For professional use only.

Hygiene measures : Do not inhale vapours / aerosols. Avoid contact with skin,

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eyes, and clothing. Wash contact areas after handling. Take off clothing and shoes contaminated with product. Clean before reuse. Do not eat, drink or smoke while working. Wash hands, and/or face before breaks and when workday is finished. Keep away from food, drink and animal feedingstuffs.

### 7.2 Conditions for safe storage, including any incompatibilities

Storage class (TRGS 510) : 12, Non Combustible Liquids

Recommended storage temperature : > 5 °C

Packaging material : Suitable material: polyethylene, GFK

### 7.3 Specific end use(s)

Specific use(s) : We are unaware of any specific end uses which go beyond the data reported in Section 1.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Formaldehyde	50-00-0	STEL	0,6 ppm 0,74 mg/m <sup>3</sup>	2004/37/EC
Further information: Dermal sensitisation, Carcinogens or mutagens				
		TWA	0,3 ppm 0,37 mg/m <sup>3</sup>	2004/37/EC

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Guanidine, cyano-, polymer with ammonium chloride ((NH <sub>4</sub> )Cl) and formaldehyde	DNEL not necessary (polymer)			
Formaldehyde	Industrial use	Inhalation	Long-term systemic effects	9 mg/m <sup>3</sup>
	Industrial use	Inhalation	Acute systemic effects	0,375 mg/m <sup>3</sup>
	Industrial use	Inhalation	Acute local effects	0,75 mg/m <sup>3</sup>
	Industrial use	Skin contact	Long-term systemic effects	240 mg/kg bw/day
	Industrial use	Skin contact	Long-term local effects	0,037 mg/cm <sup>2</sup>
	Available hazard data do not support the			

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	need for a DNEL to be established for other health effects.			
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### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Guanidine, cyano-, polymer with ammonium chloride ((NH <sub>4</sub> )Cl) and formaldehyde	PNEC not necessary (polymer)	
Formaldehyde	Fresh water	0,44 mg/l
	Marine water	0,44 mg/l
	Sewage treatment plant	0,19 mg/l
	Fresh water sediment	2,3 mg/kg dry weight (d.w.)
	Marine sediment	2,3 mg/kg dry weight (d.w.)
	Soil	0,2 mg/kg dry weight (d.w.)

## 8.2 Exposure controls

### Personal protective equipment

Eye protection : Safety glasses

#### Hand protection

Material : Chloroprene, Recommendation: Camapren 722  
Break through time : > 480 min  
Glove thickness : 0,6 mm  
Directive : DIN EN 374  
Manufacturer : Kächele-Cama Latex GmbH (KCL), Germany

Material : Nitrile rubber, Recommendation: Camatril 730  
Break through time : > 480 min  
Glove thickness : 0,4 mm  
Directive : DIN EN 374  
Manufacturer : Kächele-Cama Latex GmbH (KCL), Germany

Skin and body protection : Protective clothing

Respiratory protection : Use suitable respiratory protection where aerosols/vapours are generated.

Filter type : ABEK-filter

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : aqueous solution

Colour : slightly opaque

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Odour	:	odourless
pH	:	3 - 5 (20 °C) Concentration: 20 g/l
Boiling point/boiling range	:	ca. 100 °C (1.013 hPa)
Flash point	:	Not applicable
Flammability (solid, gas)	:	Not applicable
Density	:	1,11 g/cm <sup>3</sup> (20 °C)
Solubility(ies) Water solubility	:	completely miscible
Auto-ignition temperature	:	not auto-flammable
Viscosity Viscosity, dynamic	:	10 mPa.s (20 °C)

### 9.2 Other information

no data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See section 10.3

### 10.2 Chemical stability

Even if used as directed, small amounts of hazardous decomposition products may possibly be emitted.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reactions occur under normal storage conditions and during normal use.

### 10.4 Conditions to avoid

Conditions to avoid : < 5 °C

### 10.5 Incompatible materials

Materials to avoid : Strong acids and strong bases  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

With heating above 100°C:  
Formaldehyde

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

###### Product:

Acute oral toxicity : LD50 (Rat): 3519 mg/kg  
Remarks: The result refers to a 50% solution.  
Own test result.

###### Components:

##### **Guanidine, cyano-, polymer with ammonium chloride ((NH<sub>4</sub>)Cl) and formaldehyde:**

Acute oral toxicity : Assessment: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : Assessment: Based on available data, the classification criteria are not met.

Acute dermal toxicity : Assessment: Based on available data, the classification criteria are not met.

##### **Formaldehyde:**

Acute oral toxicity : Assessment: Toxic if swallowed.  
Remarks: Literature, IUCLID

Acute inhalation toxicity : Assessment: Toxic if inhaled.  
Remarks: Literature, IUCLID

Acute dermal toxicity : Assessment: Toxic in contact with skin.  
Remarks: Literature, IUCLID

##### **Skin corrosion/irritation**

###### Components:

##### **Guanidine, cyano-, polymer with ammonium chloride ((NH<sub>4</sub>)Cl) and formaldehyde:**

Remarks : no data available

##### **Formaldehyde:**

Assessment : Causes severe skin burns and eye damage.  
Remarks : Literature, IUCLID

##### **Serious eye damage/eye irritation**

###### Product:

Result : Moderate eye irritation  
Remarks : The result refers to a 50% solution.  
Own test result.

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### Components:

#### **Guanidine, cyano-, polymer with ammonium chloride ((NH<sub>4</sub>)Cl) and formaldehyde:**

Remarks : no data available

#### **Formaldehyde:**

Result : Causes serious eye damage.  
Remarks : literature

### **Respiratory or skin sensitisation**

#### Components:

#### **Guanidine, cyano-, polymer with ammonium chloride ((NH<sub>4</sub>)Cl) and formaldehyde:**

Remarks : no data available

#### **Formaldehyde:**

Assessment : May cause sensitisation by skin contact.  
Remarks : literature

### **Germ cell mutagenicity**

#### Components:

#### **Guanidine, cyano-, polymer with ammonium chloride ((NH<sub>4</sub>)Cl) and formaldehyde:**

Germ cell mutagenicity- Assessment : no data available

#### **Formaldehyde:**

Genotoxicity in vitro : Test Type: Sister chromatid exchange assay  
Test system: Rodent cell line  
Metabolic activation: without  
Method: OECD Test Guideline 479  
Result: mutagenic/genotoxic effects  
Remarks: literature

Germ cell mutagenicity- Assessment : Suspected of causing genetic defects., Literature, IUCLID

### **Carcinogenicity**

#### Components:

#### **Guanidine, cyano-, polymer with ammonium chloride ((NH<sub>4</sub>)Cl) and formaldehyde:**

Carcinogenicity - Assessment : no data available

#### **Formaldehyde:**

Carcinogenicity - Assessment : May cause cancer (Carc. Cat. 1), Literature, IUCLID



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### Reproductive toxicity

#### Components:

##### **Guanidine, cyano-, polymer with ammonium chloride ((NH<sub>4</sub>)Cl) and formaldehyde:**

Reproductive toxicity - Assessment : no data available

##### **Formaldehyde:**

Reproductive toxicity - Assessment : Animal model trials have produced no evidence of fertility damage., IUCLID

### STOT - single exposure

#### Components:

##### **Guanidine, cyano-, polymer with ammonium chloride ((NH<sub>4</sub>)Cl) and formaldehyde:**

Remarks : no data available

##### **Formaldehyde:**

Assessment : May cause respiratory irritation.  
Remarks : literature

### STOT - repeated exposure

#### Components:

##### **Guanidine, cyano-, polymer with ammonium chloride ((NH<sub>4</sub>)Cl) and formaldehyde:**

Remarks : no data available

##### **Formaldehyde:**

Remarks : no data available

### Aspiration toxicity

#### Components:

##### **Guanidine, cyano-, polymer with ammonium chloride ((NH<sub>4</sub>)Cl) and formaldehyde:**

No data available

##### **Formaldehyde:**

No data available

### Further information

#### Product:

Remarks : No additional toxicological data are available.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 30,6 mg/l  
Exposure time: 48 h  
Method: Directive 92/69/EEC C.2  
GLP: no  
Remarks: Own test result.

Toxicity to microorganisms : IC50 (Activated sludge): 1,9 mg/l  
Exposure time: 4 h  
Test Type: Nitrification inhibition  
Method: DIN ISO 9509  
GLP: no  
Remarks: The result refers to a 10% solution.

: IC50 (Activated sludge): 13,6 mg/l  
Exposure time: 4 h  
Test Type: Nitrification inhibition  
Method: DIN ISO 9509  
GLP: no  
Remarks: The result refers to a 1% solution.

: IC50 (Activated sludge): 143 mg/l  
Exposure time: 4 h  
Test Type: Nitrification inhibition  
Method: DIN ISO 9509  
GLP: no  
Remarks: The result refers to a 0,1% solution.

#### Components:

#### **Guanidine, cyano-, polymer with ammonium chloride ((NH<sub>4</sub>)Cl) and formaldehyde:**

Toxicity to fish : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: no data available

#### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

#### **Formaldehyde:**

Toxicity to fish : LC50 (Fish): 52,2 mg/l  
Exposure time: 96 h  
Remarks: literature

Toxicity to daphnia and other aquatic invertebrates : EC50 (Species not given): 1070 mg/l  
Exposure time: 48 h  
Remarks: literature

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### 12.2 Persistence and degradability

#### Product:

Biodegradability : Test Type: Zahn-Wellens Test  
Inoculum: Activated sludge, industrial, non-adapted  
Remarks: Not readily biodegradable.

Physico-chemical removability : Remarks: Can be eliminated from water by flocculation.

#### Components:

##### **Guanidine, cyano-, polymer with ammonium chloride ((NH<sub>4</sub>)Cl) and formaldehyde:**

Biodegradability : Remarks: no data available

##### **Formaldehyde:**

Biodegradability : Remarks: Readily biodegradable.  
Literature, IUCLID

### 12.3 Bioaccumulative potential

#### Components:

##### **Guanidine, cyano-, polymer with ammonium chloride ((NH<sub>4</sub>)Cl) and formaldehyde:**

Bioaccumulation : Remarks: no data available

##### **Formaldehyde:**

Bioaccumulation : Bioconcentration factor (BCF): < 1  
Remarks: Significant bioaccumulation need not be expected.  
IUCLID

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

### 12.6 Other adverse effects

#### Product:

Additional ecological information : The product forms hardly soluble precipitates with anionic compounds, that are rapidly eliminated from waters by flocculation.  
Similarly, the aquatic toxicity is strongly mitigated by anionic compounds (like e. g. humic acids).  
Therefore, a longterm adverse effect under realistic conditions

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is not to be expected.  
No further ecotoxicological data are available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Product : Must be brought to an adequate waste treatment facility, in conformity with applicable waste disposal regulations.
- Contaminated packaging : Packaging, that can not be reused after cleaning must be disposed or recycled in accordance with all federal, national and local regulations.

### SECTION 14: Transport information

#### 14.1 UN number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Remarks : Not classified as dangerous in the meaning of transport regulations.

**ADR** : Not regulated as a dangerous good

**RID** : Not regulated as a dangerous good

**IMDG** : Not regulated as a dangerous good

Remarks : Not classified as dangerous in the meaning of transport regulations.

**IATA (Cargo)** : Not regulated as a dangerous good

Remarks : Not classified as dangerous in the meaning of transport regulations.

**IATA (Passenger)** : Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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### SECTION 15: Regulatory information

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

##### Other regulations:

The product can be used as a slimicide, flocculant, precipitant and fixative in production of paper, cardboard and pasteboard for foodstuff packagings (as per German Recommendation XXXVI).

#### 15.2 Chemical safety assessment

No substance safety assessment is required for this product.

### SECTION 16: Other information

#### Full text of H-Statements

H301	: Toxic if swallowed.
H311	: Toxic in contact with skin.
H314	: Causes severe skin burns and eye damage.
H317	: May cause an allergic skin reaction.
H331	: Toxic if inhaled.
H341	: Suspected of causing genetic defects.
H350	: May cause cancer.
H411	: Toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Carc.	: Carcinogenicity
Muta.	: Germ cell mutagenicity
Skin Corr.	: Skin corrosion
Skin Sens.	: Skin sensitisation
2004/37/EC	: Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work
2004/37/EC / STEL	: Short term exposure limit
2004/37/EC / TWA	: Long term exposure limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentra-

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tion; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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