

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Melflock® FFC 60

Version 7.1 / REG_EU
Revision Date: 27.07.2020

Specification: 132443
Material no.:

Date of first issue: 27.07.2020
Print Date: 28.07.2020

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

1.1 Product identifier

Trade name : Melflock® FFC 60

Registration number : if available listed in Chapter. 3

Unique Formula Identifier (UFI) : V7C0-N03G-Y00N-QP4G

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

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

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 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Hazard statements : H411 Toxic to aquatic life with long lasting effects.

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

Response:

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P391 Collect spillage.

Disposal:

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

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 : Aqueous solution of a cyanamide/polyamine condensation product
Cationic polymer

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
condensation product of cyanamide derivative / polyamine	70893-01-5 638-865-7	Aquatic Chronic 2; H411	> 25
2,2'-oxybisethanol; diethylene glycol	111-46-6 203-872-2 603-140-00-6 01-2119457557-21-XXXX	Acute Tox. 4; H302 STOT RE 2; H373	>= 5 - < 10

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 : See that there is fresh air.
- In case of skin contact : Remove and wash contaminated clothing before re-use. Upon skin contact, wash with plenty of water and soap.
- 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, CO2, dry powder.

Unsuitable extinguishing media : high volume water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : Nitrogen oxides (NOx)
Carbon oxides

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.

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).
Pick up and transfer to properly labelled containers.

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 : Handle in accordance with good industrial hygiene and safety practice.
Provide sufficient ventilation and exhaust at the workplace.
Handle and open container with care.

Hygiene measures : Avoid contact with skin, eyes and clothing. Remove and wash

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contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke during use. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place.
- Advice on common storage : Incompatible with strong acids and bases.
Incompatible with strong oxidizing agents.
- Storage class (TRGS 510) : 12, Non Combustible Liquids
- Storage period : > 6 Months
- Recommended storage temperature : 5 - 30 °C
- Packaging material : Suitable material: plastic receptacles, glass-fibre reinforced plastics (GRP), polyethylene

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

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 : Butyl-rubber, Recommendation: Butoject 898
- Break through time : > 480 min
- Glove thickness : 0,7 mm
- Directive : DIN EN 374
- Manufacturer : Kächele-Cama Latex GmbH (KCL), Germany
- Skin and body protection : Protective clothing
- Respiratory protection : Do not inhale gases, vapours, aerosols or dust - use respira-

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tory protection equipment.
Dust protection mask in accordance with EN 149 FFP2

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: Aqueous solution
Colour	: yellowish
pH	: 5 - 6 (20 °C)
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: Not applicable
Upper explosion limit / upper flammability limit	: no data available
Lower explosion limit / Lower flammability limit	: no data available
Vapour pressure	: no data available
Density	: ca. 1,2 g/cm ³
Solubility(ies) Water solubility	: completely miscible
Auto-ignition temperature	: no data available
Decomposition temperature	: no data available
Viscosity Viscosity, dynamic	: 90 - 120 mPa.s

9.2 Other information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : None known.

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10.4 Conditions to avoid

Conditions to avoid : Avoid long term exposure to elevated temperatures.

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.
see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

condensation product of cyanamide derivative / polyamine:

Acute oral toxicity : Remarks: no data available

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

2,2'-oxybisethanol; diethylene glycol:

Acute oral toxicity : Assessment: Harmful if swallowed., EU-CLP as per Regulation (EU) No. 1272/2008, Annex VI, The available data does not support the harmonized classification.
Remarks: IUCLID

Acute inhalation toxicity : LC50 (rat): > 4,4 mg/l
Remarks: maximum concentration in the test: no animals died.
literature

Acute dermal toxicity : LD50 (Rabbit): 11890 mg/kg
Remarks: literature

Skin corrosion/irritation

Components:

condensation product of cyanamide derivative / polyamine:

Remarks : no data available

2,2'-oxybisethanol; diethylene glycol:

Species : Rabbit
Result : Not irritating.
Remarks : IUCLID

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Serious eye damage/eye irritation

Components:

condensation product of cyanamide derivative / polyamine:

Remarks : no data available

2,2'-oxybisethanol; diethylene glycol:

Species : Rabbit
Result : Not irritating.
Remarks : IUCLID

Respiratory or skin sensitisation

Components:

condensation product of cyanamide derivative / polyamine:

Remarks : no data available

2,2'-oxybisethanol; diethylene glycol:

Species : Guinea pig
Result : not sensitizing
Remarks : IUCLID

Germ cell mutagenicity

Components:

condensation product of cyanamide derivative / polyamine:

Germ cell mutagenicity- Assessment : no data available

2,2'-oxybisethanol; diethylene glycol:

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test
Remarks: Literature, IUCLID

Carcinogenicity

Components:

condensation product of cyanamide derivative / polyamine:

Carcinogenicity - Assessment : no data available

2,2'-oxybisethanol; diethylene glycol:

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.
Remarks: Literature, IUCLID

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Reproductive toxicity

Components:

condensation product of cyanamide derivative / polyamine:

Reproductive toxicity - Assessment : no data available

2,2'-oxybisethanol; diethylene glycol:

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.
Remarks: Literature, IUCLID

STOT - single exposure

Components:

condensation product of cyanamide derivative / polyamine:

Remarks : no data available

2,2'-oxybisethanol; diethylene glycol:

Remarks : no data available

STOT - repeated exposure

Components:

condensation product of cyanamide derivative / polyamine:

Remarks : no data available

2,2'-oxybisethanol; diethylene glycol:

Exposure routes : oral
Target Organs : Kidney
Assessment : May cause damage to organs through prolonged or repeated exposure.
Remarks : Literature, IUCLID

Aspiration toxicity

Components:

condensation product of cyanamide derivative / polyamine:

No data available

2,2'-oxybisethanol; diethylene glycol:

No data available

Further information

Product:

Remarks : No tests were performed with this mixture.

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SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 2,9 mg/l
Exposure time: 48 h
Analytical monitoring: no
Method: Directive 92/69/EEC C.2
GLP: no
Remarks: Own test result.

Ecotoxicology Assessment

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

Components:

condensation product of cyanamide derivative / polyamine:

Ecotoxicology Assessment

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

2,2'-oxybisethanol; diethylene glycol:

Ecotoxicology Assessment

Acute aquatic toxicity : no data available

Chronic aquatic toxicity : no data available

12.2 Persistence and degradability

Product:

Biodegradability : Test Type: Zahn-Wellens Test
Biodegradation: ca. 45 %
Exposure time: 28 d
Remarks: Readily biodegradable.

Components:

condensation product of cyanamide derivative / polyamine:

Biodegradability : Remarks: no data available

2,2'-oxybisethanol; diethylene glycol:

Biodegradability : Remarks: no data available

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12.3 Bioaccumulative potential

Components:

condensation product of cyanamide derivative / polyamine:

Bioaccumulation : Remarks: no data available

2,2'-oxybisethanol; diethylene glycol:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).
Literature, IUCLID

Partition coefficient: n-octanol/water : log Pow: -1,98 (25 °C)

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 : Avoid release to the environment.
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

ADR : UN 3082

RID : UN 3082

IMDG : UN 3082

IATA (Cargo) : UN 3082

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14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(cyanamide derivate-polyamine-condensation product)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(cyanamide derivate-polyamine-condensation product)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(cyanamide derivate-polyamine-condensation product)

IATA (Cargo) : Environmentally hazardous substance, liquid, n.o.s.
(cyanamide derivate-polyamine-condensation product)

14.3 Transport hazard class(es)

ADR : 9

RID : 9

IMDG : 9

IATA (Cargo) : 9

14.4 Packing group

ADR
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

RID
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

IMDG
Packing group : III
Labels : 9
EmS Code : F-A, S-F

IATA (Cargo)
Packing instruction (cargo aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous
Remarks : ERG-Code 9L

IATA (Passenger)
Packing instruction (passenger aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous

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Remarks : ERG-Code 9L

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Volatile organic compounds : Law on the incentive tax for volatile organic compounds (VOCV)
Volatile organic compounds (VOC) content: 0 %

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

H302 : Harmful if swallowed.
H373 : May cause damage to organs through prolonged or repeated exposure.
H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

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Acute Tox. : Acute toxicity
Aquatic Chronic : Long-term (chronic) aquatic hazard
STOT RE : Specific target organ toxicity - repeated exposure

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 concentration; 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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