

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



DIFIX C2

Version 6.2 / REG_EU
Revision Date: 30.07.2020

Specification: 131804
Material no.:

Date of first issue: 30.07.2020
Print Date: 31.07.2020

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

1.1 Product identifier

Trade name : DIFIX C2

Registration number : if available listed in Chapter. 3

Unique Formula Identifier (UFI) : NEC0-N0G9-K00N-1C9M

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 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.

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
Dermal contact may cause allergic reactions in already sensitized and very susceptible persons.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Cationic polymer
Contents in water
ca.
40 %

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
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
Guanidine, cyano-, polymer with ammonium chloride ((NH ₄)Cl) and formaldehyde	55295-98-2 686-887-0	Aquatic Chronic 2; H411	<= 40

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 : Change contaminated, soaked clothes.
Wash off with plenty of water and soap.

In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids.

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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 health effects are not available.

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.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : nitrous gases
hydrogen chloride (HCl)
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.
Dike or contain spill.
Shut off source of leak if safe to do so.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Absorb with liquid-binding material, e. g.: diatomaceous earth, sand, universal binder
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal considerations see section 13.

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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.
Ensure adequate ventilation.
- Advice on protection against fire and explosion : No special precautions required.
- Hygiene measures : Do not inhale vapours / aerosols. Avoid contact with skin, eyes and clothing. 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

- 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 ³	2004/37/EC
Further information: Dermal sensitisation, Carcinogens or mutagens				
		TWA	0,3 ppm 0,37 mg/m ³	2004/37/EC

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

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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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	aqueous solution
Colour	:	transparent
Odour	:	odourless
pH	:	3 - 5 (20 °C) undiluted
Boiling point/boiling range	:	ca. 100 °C (1.013 hPa)
Flash point	:	Not applicable
Density	:	ca. 1,15 g/cm ³ (20 °C)
Solubility(ies) Water solubility	:	completely miscible
Partition coefficient: n- octanol/water	:	no data available
Viscosity Viscosity, dynamic	:	30 - 50 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

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

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

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:
Traces possible: formaldehyde

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): 3519 mg/kg
Method: OECD Test Guideline 401
Test substance: Data from a comparable product:
Remarks: Own test result.

Components:

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

Guanidine, cyano-, polymer with ammonium chloride ((NH₄)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.

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Skin corrosion/irritation

Components:

Formaldehyde:

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

Guanidine, cyano-, polymer with ammonium chloride ((NH₄)Cl) and formaldehyde:

Remarks : no data available

Serious eye damage/eye irritation

Product:

Species : Rabbit
Exposure time : 24 h
Method : Directive 92/69/EEC B.5
Result : Mild eye irritation
Test substance : Data from a comparable product:
Remarks : Own test result.

Components:

Formaldehyde:

Result : Causes serious eye damage.
Remarks : literature

Guanidine, cyano-, polymer with ammonium chloride ((NH₄)Cl) and formaldehyde:

Remarks : no data available

Respiratory or skin sensitisation

Components:

Formaldehyde:

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

Guanidine, cyano-, polymer with ammonium chloride ((NH₄)Cl) and formaldehyde:

Remarks : no data available

Germ cell mutagenicity

Components:

Formaldehyde:

Genotoxicity in vitro : Test Type: Sister chromatid exchange assay
Test system: Rodent cell line
Metabolic activation: without
Method: OECD Test Guideline 479

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Result: mutagenic/genotoxic effects
Remarks: literature

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

Guanidine, cyano-, polymer with ammonium chloride ((NH₄)Cl) and formaldehyde:

Germ cell mutagenicity- Assessment : no data available

Carcinogenicity

Components:

Formaldehyde:

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

Guanidine, cyano-, polymer with ammonium chloride ((NH₄)Cl) and formaldehyde:

Carcinogenicity - Assessment : no data available

Reproductive toxicity

Components:

Formaldehyde:

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

Guanidine, cyano-, polymer with ammonium chloride ((NH₄)Cl) and formaldehyde:

Reproductive toxicity - Assessment : no data available

STOT - single exposure

Components:

Formaldehyde:

Assessment : May cause respiratory irritation.
Remarks : literature

Guanidine, cyano-, polymer with ammonium chloride ((NH₄)Cl) and formaldehyde:

Remarks : no data available

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STOT - repeated exposure

Components:

Formaldehyde:

Remarks : no data available

Guanidine, cyano-, polymer with ammonium chloride ((NH₄)Cl) and formaldehyde:

Remarks : no data available

Aspiration toxicity

Components:

Formaldehyde:

No data available

Guanidine, cyano-, polymer with ammonium chloride ((NH₄)Cl) and formaldehyde:

No data available

Further information

Product:

Remarks : No additional toxicological data are available.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss): 1,3 mg/l
Exposure time: 96 h
Method: Directive 92/69/EEC C.1
Remarks: Value relates to a similar product.
Own test result.

LC50 (Oncorhynchus mykiss): 24 mg/l
Exposure time: 96 h
Test substance: Data from a comparable product:
Remarks: in the presence of 10 mg/l humic acid.
Own test result.

LC50 (Oncorhynchus mykiss): 42 mg/l
Exposure time: 96 h
Test substance: Data from a comparable product:
Remarks: in the presence of 20 mg/l humic acid.
Own test result.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 39 mg/l
Exposure time: 48 h
Test substance: Data derived from product of similar composi-

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tion:
Method: DIN 38412
Remarks: Own test result.

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 2,1 mg/l
End point: Biomass
Exposure time: 72 h
Remarks: Own test result.
Value relates to a similar product.

Toxicity to microorganisms : EC 10 (Pseudomonas putida): 1,5 mg/l
Exposure time: 16 h
Test substance: Data derived from product of similar composition:
Method: DIN 38412 part 8
GLP: yes
Remarks: Own test result.

Ecotoxicology Assessment

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

Components:

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

Guanidine, cyano-, polymer with ammonium chloride ((NH₄)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.

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: Not readily biodegradable.

Biochemical Oxygen Demand (BOD) : < 0,9 mg/g
Incubation time: 5 d

Chemical Oxygen Demand (COD) : 198 mg/g

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Components:

Formaldehyde:

Biodegradability : Remarks: Readily biodegradable.
Literature, IUCLID

Guanidine, cyano-, polymer with ammonium chloride ((NH₄)Cl) and formaldehyde:

Biodegradability : Remarks: no data available

12.3 Bioaccumulative potential

Components:

Formaldehyde:

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

Guanidine, cyano-, polymer with ammonium chloride ((NH₄)Cl) and formaldehyde:

Bioaccumulation : Remarks: no data available

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 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.

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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

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(cationic polymeric resin)
RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(cationic polymeric resin)
IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(cationic polymeric resin)
IATA (Cargo) : Environmentally hazardous substance, liquid, n.o.s.
(cationic polymeric resin)

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

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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
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 : Volatile organic compounds (VOC) content: 0,1 %

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).

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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 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

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es; (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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