

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Creamino®

Version 4.1 / REG\_EU  
Revision Date: 04.08.2020

Specification: 141894  
Material no.:

Date of first issue: 04.08.2020  
Print Date: 05.08.2020

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

### 1.1 Product identifier

Trade name : Creamino®  
Registration number : if available listed in Chapter. 3

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

Use of the Sub-  
stance/Mixture : Feed Additive

### 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 num-  
ber : +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)**  
Not a hazardous substance or mixture.

### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**  
No labelling required

### 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

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
No dangerous ingredients according to Regulation (EC) No. 1907/2006 :			

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guanidinoacetic acid	352-97-6 206-529-5	not classified	>= 96
Starch, unmodified	9005-25-8 232-679-6	not classified	<= 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 : See that there is fresh air.
- In case of skin contact : Wash off 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 : After absorbing large amounts of substance:  
Discomfort  
Nausea

### 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.
- Unsuitable extinguishing media : high volume water jet

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

- Hazardous combustion products : Ammonia  
Nitrogen oxides (NO<sub>x</sub>)  
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.

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### 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 : Sweep up and shovel.  
Avoid dust formation.  
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 : Provide appropriate exhaust ventilation at machinery.

Advice on protection against fire and explosion : Avoid formation of air-dust mixtures and keep away from ignition sources (sparks, flames, open flame) to prevent dust explosions.

Hygiene measures : Do not breathe dust. 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.

Dust explosion class : St1 (slight dust explosion hazard)

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

Requirements for storage areas and containers : Store in original container.

Advice on common storage : Incompatible with strong oxidizing agents.

#### 7.3 Specific end use(s)

Specific use(s) : Feed Additive

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

None known

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Goggles

#### Hand protection

Material : Nitrile rubber, Recommendation: Dermatril 740  
Break through time : > 480 min  
Glove thickness : 0,11 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

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

Skin and body protection : Long sleeved clothing

Respiratory protection : not required under normal use  
At high dust exposure:  
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 : granular

Colour : off-white

Odour : faintly distinct

pH : 8 - 9 (20 °C)  
Concentration: 100 g/l

Melting point/range : Not applicable  
decomposition

Flash point : Not applicable

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Burning number	:	BZ 2 - briefly ignites and rapidly extinguishes.
Upper explosion limit / upper flammability limit	:	no data available
Lower explosion limit / Lower flammability limit	:	no data available
Density	:	1,38 - 1,41 g/cm <sup>3</sup>
Bulk density	:	540 - 660 kg/m <sup>3</sup>
Solubility(ies) Water solubility	:	5,53 g/l (20 °C) pH: 8,4 Method: OECD Test Guideline 105
Partition coefficient: n-octanol/water	:	log Pow: -3,93 Method: (calculated)
Auto-ignition temperature	:	> 600 °C Ignition temperature for swirling (airborne) dust  > 360 °C Ignition temperature for deposited dust
Decomposition temperature	:	248 - 276 °C Method: DSC analysis Thermal disintegration of solid

### 9.2 Other information

Impact sensitivity	:	not sensitive to impact
Dust explosion class	:	St1 (slight dust explosion hazard)
Minimum ignition energy	:	> 10 J Method: VDI 2263

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## 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 : No hazardous reactions are known if properly handled and stored.

### 10.4 Conditions to avoid

Conditions to avoid : No specific hazards are known.

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### 10.5 Incompatible materials

Materials to avoid : oxidising agent

### 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

##### Product:

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

##### Components:

##### **guanidinoacetic acid:**

Acute oral toxicity : LD50 (Rat, female): > 2000 mg/kg  
Method: OECD 423  
Assessment: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : LC0 (Rat): > 5,13 mg/l  
Method: OECD Test Guideline 403  
Assessment: Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation

##### Components:

##### **guanidinoacetic acid:**

Species : Rabbit  
Method : OECD Guide-line 404  
Result : No skin irritation

#### Serious eye damage/eye irritation

##### Components:

##### **guanidinoacetic acid:**

Species : Rabbit  
Method : OECD Guide-line 405  
Result : No eye irritation

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### Respiratory or skin sensitisation

#### Components:

##### guanidinoacetic acid:

Test Type : Maximisation Test  
Species : Guinea pig  
Assessment : OECD Test Guideline 406  
Method : (Magnusson-Kligman test)  
Result : not sensitizing

### Germ cell mutagenicity

#### Components:

##### guanidinoacetic acid:

Genotoxicity in vitro : Test Type: Cytogenetic test V79  
Test system: Chinese hamster (V 79 -cells)  
Result: no evidence of mutagenic effects

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test, negative in the in vitro chromosome aberration test

### Carcinogenicity

#### Components:

##### guanidinoacetic acid:

Carcinogenicity - Assessment : no data available, According to the results of tests for mutagenicity and toxicity of repeated administration, cancerogenic effects are not to be expected according to the present state of information.

### Reproductive toxicity

#### Components:

##### guanidinoacetic acid:

Reproductive toxicity - Assessment : no data available, According to current knowledge, reprotoxic effects are not to be expected from repeated administration in the toxicity tests.

### STOT - single exposure

#### Components:

##### guanidinoacetic acid:

Remarks : no data available

### Repeated dose toxicity

#### Product:

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

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### Components:

#### **guanidinoacetic acid:**

Species : Rat  
NOAEL : 1250 mg/kg  
Application Route : Oral  
Exposure time : 28-day  
Method : OECD 407

Species : Rat, female  
NOAEL : 750 mg/kg  
Application Route : Oral  
Exposure time : 90-day  
Method : OECD 408

Species : Rat, male  
NOAEL : 690 mg/kg  
Application Route : Oral  
Exposure time : 90-day  
Method : OECD 408

### **Aspiration toxicity**

#### Components:

#### **guanidinoacetic acid:**

No data available

### **Further information**

#### Product:

Remarks : No additional toxicological data are available.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### **guanidinoacetic acid:**

Toxicity to fish : LC50 (Brachydanio rerio): > 100 mg/l  
Exposure time: 96 h  
Method: Directive 92/69/EEC C.1  
Remarks: Own test result.

Toxicity to daphnia and other : EC50 (Daphnia magna): > 100 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Analytical monitoring: yes  
Method: OECD TG 202  
Remarks: Own test result.



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Toxicity to algae/aquatic plants : ErC50 (senastrum capricornutum): > 93,1 mg/l  
Exposure time: 72 h  
Method: OECD TG 201  
Remarks: Own test result.

NOEC (senastrum capricornutum): > 93,1 mg/l  
Exposure time: 72 h  
Analytical monitoring: yes  
Method: OECD TG 201  
Remarks: Own test result.

### 12.2 Persistence and degradability

#### Components:

##### **guanidinoacetic acid:**

Biodegradability : Biodegradation: ca. 68 %  
Exposure time: 14 d  
Method: (CO<sub>2</sub>; Sturm test / OECD 301 B)  
Remarks: Readily biodegradable.

### 12.3 Bioaccumulative potential

#### Product:

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

### 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 : No further ecotoxicological data are available.

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## 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.

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### 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:

Feed Additive

#### 15.2 Chemical safety assessment

No substance safety assessment is required for this product.

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## SECTION 16: Other information

### Full text of other abbreviations

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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