Creamino

Version 4.0 / REG_EU
Revision Date: 16.09.2019

Specification: 141894
Material no.:

Date of first issue: 16.09.2019
Print Date: 20.02.2020

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 Substance/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 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)

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 :			
guanidinoacetic acid	352-97-6	not classified	>= 96

	206-529-5		
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 : Move to 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 : Discomfort
Nausea

4.3 Indication of any immediate medical attention and special treatment needed

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 : Ammonia
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 al-

lowed 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

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses

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
Burning number	:	BZ 2 - briefly ignites and rapidly extinguishes.
Density	:	1,38 - 1,41 g/cm3
Bulk density	:	540 - 660 kg/m3
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	:	> 1 J Method: VDI 2263

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.

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

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.

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

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 aquatic invertebrates	:	EC50 (Daphnia magna): > 100 mg/l Exposure time: 48 h Analytical monitoring: yes Method: OECD TG 202 Remarks: Own test result.
Toxicity to algae/aquatic plants	:	ErC50 (selenastrum capricornutum): > 93,1 mg/l Exposure time: 72 h Method: OECD TG 201 Remarks: Own test result. NOEC (selenastrum 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_2; 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

no data 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
Remarks : Not classified as dangerous in the meaning of transport regulations.

RID : Not regulated as a dangerous good
Remarks : Not classified as dangerous in the meaning of transport regulations.

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 regu-

lations.

IATA_P (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.

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.

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, Bioaccumu-

lative 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.

REG_EU / EN