

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Creapure®

Version 3.7 / REG\_EU  
Revision Date: 07.08.2020

Specification: 131878  
Material no.:

Date of first issue: 07.08.2020  
Print Date: 12.11.2021

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

### 1.1 Product identifier

Trade name : Creapure®  
Registration number : 01-2119931462-43-0000  
CAS-No. : 6020-87-7  
EC-No. : 200-306-6

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

Use of the Sub-  
stance/Mixture : dietary supplement

### 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

Not a PBT, vPvB substance as per the criteria of the REACH Ordinance  
Dust can form an explosive mixture in air.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

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Substance name : Creatine monohydrate

### Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)
Creatine Monohydrate	6020-87-7 200-306-6	>= 99

## 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 : No hazards which require special first aid measures.
- In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids.
- If swallowed : No hazards which require special first aid measures.

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

None known.

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

Treatment : No hazards which require special first aid measures.

## 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 : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)

### 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.  
Avoid dust formation.

### 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 : Use mechanical handling equipment.  
Avoid dust formation.  
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 : Ensure adequate ventilation.  
Avoid dust formation.  
Do not allow accumulation of dust.

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. Take measures to prevent the build up of electrostatic charge.

Hygiene measures : Do not breathe dust. Avoid contact with eyes. 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

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

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510) : 13, Non Combustible Solids

Packaging material : Suitable material: polyethylene, Polypropylene

### 7.3 Specific end use(s)

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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

None known

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : not required under normal use  
protective goggles in case of dusts being formed

Hand protection

Remarks : not required under normal use

Skin and body protection : Protective clothing  
If intensive contact with the hazardous material cannot be avoided with certainty, order (depending on the hazard involved) additional protective measures for example chemical protective suit.

Respiratory protection : not required under normal use  
Use suitable respiratory protection in the presence of dust.  
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 : powder

Colour : colourless to slightly yellow

Odour : odourless

pH : 7.4 (20 °C)  
Concentration: 14 g/l  
(saturated solution)

Melting point/range : ca. 290 °C  
Decomposition: yes

Flash point : Not applicable

Flammability (solid, gas) : BZ 1 - does not ignite.  
Method: VDI 2263

Solubility(ies)  
Water solubility : 14 g/l (20 °C)

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Partition coefficient: n-octanol/water : log Pow: -2 (20 °C)

Auto-ignition temperature : > 800 °C  
Ignition temperature for swirling (airborne) dust

### 9.2 Other information

Molecular weight : 149.1 g/mol

Dust explosion class : St1

## 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 : Avoid temperatures above 250°C.

### 10.5 Incompatible materials

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

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

#### Components:

#### **Creatine Monohydrate:**

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

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Acute dermal toxicity : LD50 (rat, male/female): > 2000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: Based on available data, the classification criteria are not met.  
Remarks: Own test result.

### Skin corrosion/irritation

#### Components:

##### **Creatine Monohydrate:**

Species : Rabbit  
Method : Directive 67/548/EEC, Annex V, B.4.  
Result : No skin irritation  
Remarks : Own test result.

### Serious eye damage/eye irritation

#### Components:

##### **Creatine Monohydrate:**

Species : Rabbit  
Method : Guideline 92/69/EEC B.5  
Result : No eye irritation  
Remarks : Own test result.

### Respiratory or skin sensitisation

#### Components:

##### **Creatine Monohydrate:**

Test Type : Magnusson & Kligman  
Species : guinea pig  
Method : Directive 96/54/EC, B.6  
Result : not sensitizing  
Remarks : Own test result.

### Germ cell mutagenicity

#### Components:

##### **Creatine Monohydrate:**

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test, Own study

### Carcinogenicity

#### Components:

##### **Creatine Monohydrate:**

Carcinogenicity - Assessment : No evidence that cancer may be caused.

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### Reproductive toxicity

#### Components:

##### **Creatine Monohydrate:**

Reproductive toxicity - Assessment : No indications of effects of reproductive / developmental toxicity.

### STOT - single exposure

#### Components:

##### **Creatine Monohydrate:**

Remarks : no data available

### STOT - repeated exposure

#### Components:

##### **Creatine Monohydrate:**

Remarks : no data available

### Repeated dose toxicity

#### Components:

##### **Creatine Monohydrate:**

Species : Rat  
NOAEL : 2000 mg/kg  
Exposure time : 28-day  
Assessment : Based on available data, the classification criteria are not met.

### Aspiration toxicity

#### Components:

##### **Creatine Monohydrate:**

No data available

### Experience with human exposure

#### Components:

##### **Creatine Monohydrate:**

General Information : Creatine is found in muscular tissue and is produced by the liver and kidneys. No health effects have been reported in humans.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **Creatine Monohydrate:**

- Toxicity to fish : LC50 (Brachydanio rerio): > 100 mg/l  
Exposure time: 96 h  
Method: Directive 92/69/EEC, C.2  
Remarks: Own test result.
- NOEC : > 100 mg/l  
Method: Directive 92/69/EEC, C.2  
Remarks: Own test result.
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): > 1000 mg/l  
Exposure time: 48 h  
Method: Directive 92/69/EEC C.2  
Remarks: Own test result.

### 12.2 Persistence and degradability

#### Components:

##### **Creatine Monohydrate:**

- Biodegradability : Result: Readily biodegradable.  
Biodegradation: 96.6 %  
Exposure time: 28 d  
Remarks: Own study

### 12.3 Bioaccumulative potential

#### Components:

##### **Creatine Monohydrate:**

- Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).
- Partition coefficient: n-octanol/water : log Pow: < -2 (20 °C)

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

- Assessment : Not a PBT, vPvB substance as per the criteria of the REACH Ordinance.



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### 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

**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.

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### 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

#### 15.2 Chemical safety assessment

No substance safety assessment is required for this product because use of the substance is already regulated within the framework of specific legal regulations.

## 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

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### 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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