

**Creapure® pH 10**

Version 2.2 / REG\_US

Specification: 164329

Revision Date: 1/9/2020

Material no.:

Print Date: 1/14/2020

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****Product identifier**Trade name : **Creapure® pH 10**CAS No. (of components) : 6020-87-7  
144-55-8  
497-19-8**Relevant identified uses of the substance or mixture and uses advised against**

Use of the Substance/Mixture : Dietary supplement

**Details of the supplier of the safety data sheet**Company : AlzChem LLC  
11390 Old Roswell Rd.  
Suite 124  
Alpharetta, GA 30009  
USA

Telephone : 770-804-0371

Fax : 770-804-0375

E-mail address of person responsible for the SDS : [Alz-PST@alzchem.com](mailto:Alz-PST@alzchem.com)**Emergency telephone number**

Emergency telephone number : CHEMTREC: (800) 424-9300

**2. HAZARDS IDENTIFICATION****Classification according to OSHA Hazard Communication Standard (CFR 1910.1200)****Classification of the substance or mixture**

OSHA Defined Hazard: Combustible Dust

**GHS-Labeling**

Hazard pictograms : None according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

Signal word : Warning

Hazard statements : May form combustible dust concentrations in air.

Precautionary statements : None according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

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**Other Hazards**

None known

**3. COMPOSITION/INFORMATION ON INGREDIENTS**
**Chemical Nature**

Mixture

**Information on ingredients/hazardous components as per OSHA Hazard Communication Standard (29 CFR 1910.1200)**

<b>Creatine monohydrate</b>	<b>&gt; 94%</b>		
CAS No. 6020-87-7			
OSHA Defined Hazard	Combustible Dust	May form combustible dust concentrations in the air.	
<b>Sodium hydrogencarbonate</b>	<b>≤ 3%</b>		
CAS No. 144-55-8			
Not hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200)			
<b>Sodium carbonate</b>	<b>≤ 3%</b>		
CAS No. 497-19-8			
Eye Irritation	Category 2A	Causes serious eye irritation.	

**4. FIRST AID MEASURES**
**Description of first aid measures**

- General advice : If feeling unwell seek medical advice.
- If inhaled : Move to fresh air.
- In case of skin contact : Change contaminated clothing.  
Wash off with plenty of water.
- In case of eye contact : Keep eye wide open while rinsing.
- If swallowed : After absorbing large amounts of substance / In case of discomfort: Supply with medical care.

**Most important symptoms and effects, both acute and delayed**

None known.

**Indication of any immediate medical attention and special treatment needed**

No data available

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**5. FIREFIGHTING MEASURES****Extinguishing media**

Suitable extinguishing media : The product itself is not flammable; adapt fire-extinguishing measures to surroundings

Unsuitable extinguishing media : No data available

**Special hazards arising from the substance or mixture**

Explosion hazard : Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

**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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**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Personal precautions : Wear personal protective equipment; see section 8.  
Ensure adequate ventilation.  
Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.  
Avoid dispersal of dust in the air (*i.e.*, cleaning dust surfaces with compressed air).  
Nonsparking tools should be used.

**Environmental precautions**

Environmental precautions : Prevent substance from entering soil, natural bodies of water and sewer systems.

**Methods and material for containment and cleaning up**

Methods for cleaning up : Sweep up and shovel into suitable containers for disposal.  
Avoid dust formation.

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**7. HANDLING AND STORAGE****Precautions for safe handling**

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.

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- 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.  
Minimize dust generation and accumulation.  
Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.  
Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations.  
Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
- Hygiene measures : Do not breathe dust. Take off clothing and shoes contaminated with product. Clean before reuse. Do not eat, drink, smoke, or sniff while at work. Wash your hands and/or face before breaks and before termination of work. Keep away from food, drink and animal feeding stuffs.

**Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Keep container tightly closed. Store in a cool and dry place.

Storage period : 36 Months

Packaging material : Suitable material: polyethylene, polypropylene

**8. Exposure controls/personal protection****Airborne Exposure Guidelines**

Particulates not otherwise regulated (PNOR)

CAS No. (of components) : 6020-87-7, 144-55-8, 497-19-8

**US OSHA Permissible Exposure Limits (PELs)**

Form: Dust

Time Weighted Average (TWA): 15 mg/m<sup>3</sup> or 50 mppcf (millions of particles per cubic foot of air) (total dust)

Time Weighted Average (TWA): 5 mg/m<sup>3</sup> (respirable fraction)

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**Control parameters****Engineering measures**

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen- deficient environment.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (*i.e.*, there is no leakage from the equipment).

Use only appropriately classified electrical equipment and powered industrial trucks.

In case of dust being formed, provide for adequate extraction.

Ensure all equipment is electrically grounded before beginning transfer operations.

**Exposure controls****Personal protective equipment**

Eye protection : Safety glasses

**Hand protection**

Remarks : Wear protective gloves made of the following materials:.

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 suit

Respiratory protection : Do not inhale gases, vapors, aerosols or dust - use respiratory protection equipment.  
Dust protection mask.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

Appearance : Solid

Color : Colorless

Odor : Odorless

Odor threshold : No data available

pH : 10.0 (68°F) (20°C) (saturated solution)

Melting point/range : 545°F (285°C)  
Decomposition: yes

Boiling point/range : No data available

Flammability : No data available

Flash point : Not applicable

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Upper/lower flammability or explosive limits	: No data available
Decomposition temperature	: No data available
Vapor pressure	: No data available
Evaporation rate	: Not applicable
Vapor density	: No data available
Density	: No data available
Relative density	: No data available
Water solubility	: 15.2 g/l saturated solution (68 °F) (20 °C)
Partition coefficient: n-octanol/water	: log P <sub>ow</sub> : < -2 (68 °F) (20 °C) Method: EEC method 92/69/EEC, A 8
Auto-ignition temperature	: No data available
Viscosity	: No data available

**Other information**

No data available

**10. STABILITY AND REACTIVITY****Chemical stability**

No decomposition if stored and applied as directed.

**Possibility of hazardous reactions**

Hazardous reactions : None known.

**Conditions to avoid**

Conditions to avoid : &gt; 482°F (&gt;250°C)

**Incompatible materials**Materials to avoid : Strong acids and strong bases  
Strong oxidizing agents**Hazardous decomposition products**

Hazardous decomposition products : Ammonia

**11. TOXICOLOGICAL INFORMATION**

Product and component data and/or data for a similar material are summarized below.

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**Acute toxicity****Product:**

Acute oral toxicity : LD50 (rat): > 2000 mg/kg  
Method: Directive 93/21/EWG (Acute Toxic Class Method)  
Remarks: AlzChem test result.

**Components: Creatine Monohydrate:**

Acute oral toxicity : LD50 (rat): > 2000 mg/kg  
Method: OECD TG 423  
GLP: yes  
Assessment: The classification criteria are not met.  
Remarks: AlzChem test result.

Acute dermal toxicity : LD50 (rat, male/female): > 2000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The classification criteria are not met.  
Remarks: AlzChem test result.

**Skin corrosion/irritation****Components: Creatine Monohydrate**

Species: rabbit  
Method: Directive 67/548/EEC, Annex V, B.4.  
Result: No skin irritation  
GLP: yes  
Remarks: AlzChem test result.

**Serious eye damage/eye irritation****Components: Creatine Monohydrate**

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

**Respiratory or skin sensitization****Components: Creatine Monohydrate**

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

**Germ cell mutagenicity****Components: Creatine Monohydrate**

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

**Carcinogenicity****Components: Creatine Monohydrate**

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

**Reproductive toxicity****Components: Creatine Monohydrate**

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

**STOT - single exposure****Product:**

Remarks: No data available

**Components: Creatine Monohydrate**

Remarks: No data available

**STOT - repeated exposure****Product:**

Remarks: No data available

**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****Product:**

Remarks: No data available

**Components: Creatine Monohydrate**

Remarks: No data available

**Experience with human exposure****Components: Creatine Monohydrate**



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

**Further information****Product:**

Remarks: In a 28-day study in rats, no treatment related findings were noted.

The NOAEL for this study was determined to be 2000 mg/kg b.w.

No additional toxicological data are available.

**OSHA Regulated Carcinogens (NTP, IARC, OSHA Listed)**

**NTP** No component of this product is identified as a known or anticipated carcinogen by NTP.

**IARC** No component of this product is identified as a confirmed, probable, or possible carcinogen by IARC.

**OSHA** No component of this product is identified as a carcinogen or suspected carcinogen by OSHA.

**12. ECOLOGICAL INFORMATION**

Data in Section 12 is provided in accordance with EC CLP regulation 1272/2008 as this section is not mandatory under OSHA HazCom 2012 (29 CFR 1910.1200).

Component data and/or data for a similar material are summarized below.

**Ecotoxicity****Components: Creatine Monohydrate**

Toxicity to fish : LC50 (*Brachydanio rerio*): > 100 mg/l  
Exposure time: 96 h  
Method: Directive 92/69/EEC, C.2  
GLP: yes  
Remarks: AlzChem test result.

NOEC : > 100 mg/l  
Method: Directive 92/69/EEC, C.2  
GLP: yes  
Remarks: AlzChem 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: AlzChem test result.

**Persistence and degradability****Product:**

Biodegradability : Result: Readily biodegradable  
Biodegradation: 97.5 %  
Exposure time: 14 d

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**Components: Creatine Monohydrate**

Biodegradability : Result: Readily biodegradable  
Biodegradation: 96.6 %  
Exposure time: 28 d  
Remarks: AlzChem study

**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: No bioaccumulation is to be expected  
(log P<sub>ow</sub> <= 4).

**Components: Creatine Monohydrate**

Partition coefficient: : log P<sub>ow</sub>: < -2 (68 °F) (20 °C)  
n-octanol/water

**Mobility in soil**

No data available

**Other adverse effects****Product:**

Additional ecological information : Remarks: No further ecotoxicological data are available.  
Avoid release to the environment.

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**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

Product : Must be brought to an adequate waste treatment facility, in conformity with applicable waste disposal regulations.

Contaminated packaging : Packaging, that cannot be reused after cleaning must be disposed or recycled in accordance with all federal, national and local regulations.

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**14. TRANSPORT INFORMATION****US Department of Transportation (DOT):**

This product is not classified as dangerous, per US DOT regulations under 29 CFR 1910.1200

**Transport Canada:**

This product is not classified as dangerous, per Transport Canada regulations

**International Maritime Dangerous Good Code (IMDG):**

This product is not classified as dangerous, per the International Maritime Organization (IMO)

**Air transport ICAO-TI/IATA-DGR**

This product is not classified as dangerous, per the International Civil Air Association/International Air Transport Association (IATA)

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**Special precautions for user**

Remarks : Not classified as dangerous in the meaning of transport regulations.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture****The components of this product are reported in the following inventories:**

Australia (AICS) : Listed/registered  
New Zealand (NZIoC) : Listed/registered  
Philippines (PICCS) : Listed/registered  
China (IECSC) : Listed/registered

**United States – Federal Regulations****Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) – Reportable Quantity (RQ):**

The components of this product are not CERCLA regulated.

**Emergency Planning and Community Right-to-Know Act (EPCRA):****SARA Title III – Section 302 Components**

The components of this product are not subject to the reporting requirements of SARA Title III, section 302.

**SARA Title III – Section 304 Components**

The components of this product are not subject to the reporting requirements of SARA Title III, section 304.

**SARA Title III – Section 311/312 Hazards**

Not applicable.

**SARA Title III – Section 313 Components**

The components of this product are not subject to the reporting requirements of SARA Title III, section 313.

**Toxic Substances Control Act (TSCA):**

The components of this product are TSCA regulated.

**United States - State Regulations****California Prop 65**

This product does not intentionally contain any chemical known to the State of California to cause cancer, birth defects, or any other reproductive defects.

Check your local jurisdiction for specific instructions.

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**16. OTHER INFORMATION**

Refer to NFPA 654, *Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids*, for safe handling.

This version was prepared on 1/9/2020. This version replaces all previous versions.

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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**Legend**

<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration Factor
<b>c. c.</b>	closed cup
<b>CAS</b>	Chemical Abstract Services
<b>CERCLA</b>	Comprehensive Environmental Response, Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>CMR</b>	Carcinogenic-Mutagenic-toxic for Reproduction
<b>COD</b>	Chemical Oxygen Demand
<b>DIN</b>	German Institute for Standardization
<b>DNEL</b>	Derived No Effect Level
<b>DOT</b>	U.S. Department of Transportation
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act
<b>GHS</b>	Globally Harmonized System for the Classification and Labelling of Chemicals
<b>GLP</b>	Good Laboratory Practice.
<b>GMO</b>	Genetic Modified Organism
<b>HCS</b>	Hazard Communication Standard (29 CFR 1910.1200) - HazCom 2012
<b>IARC</b>	International Agency for Research on Cancer
<b>IATA DGR</b>	International Air Transport Association – Dangerous Goods Regulations
<b>ICAO-TI</b>	International Civil Aviation Organisation - Technical Instructions
<b>IMDG Code</b>	International Maritime Dangerous Goods Code
<b>ISO</b>	International Organization For Standardization
<b>LOAEL</b>	Lowest Observed Adverse Effect Level
<b>LOEL</b>	Lowest Observed Effect Level
<b>NOAEL</b>	No Observed Adverse Effect Level
<b>NOEC</b>	No Observed Effect Concentration
<b>NOEL</b>	No Observed Effect Level
<b>(H)NOS</b>	(Hazard) Not Otherwise Specified
<b>NTP</b>	U.S. National Toxicology Program
<b>o. c.</b>	open cup
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>OSHA</b>	U.S. Occupational Safety and Health Administration
<b>PBT</b>	Persistent, Bioaccumulative, Toxic
<b>PEC</b>	Predicted Environmental Concentration
<b>PEL</b>	Permissible Exposure Limit
<b>PNEC</b>	Predicted No Effect Concentration
<b>REL</b>	Recommended Exposure Limit
<b>RID</b>	Regulations concerning the International Carriage of Dangerous Goods by Rail
<b>RQ</b>	Reportable Quantity
<b>SARA</b>	Superfunds Amendment and Reauthorization A and Reauthorization Act
<b>TSCA</b>	Toxic Substances Control Act
<b>TWA</b>	Time-weight average exposure concentration
<b>vPvB</b>	Very Persistent, Very Bioaccumulative
<b>VOC</b>	Volatile Organic Compounds
<b>WHO</b>	World Health Organization