

# SAFETY DATA SHEET

## Creapure® Citrate



Material no.		Version	3.2 / REG_US
Specification	132507	Revision date	1/9/2020
VA-Nr		Print date	1/9/2020
		Page	1 / 9

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product information

Trade name	<b>Creapure® Citrate</b>
Company	AlzChem LLC 11390 Old Roswell Rd. Suite 124 Alpharetta, GA 30009 USA
Telephone	770 804-0371
Fax	770 804-0375
E-mail address	<a href="mailto:Alz-PST@alzchem.com">Alz-PST@alzchem.com</a>
Emergency telephone number	CHEMTREC: (800) 424-9300
Use of the Substance / Preparation	Dietary supplement

### 2. HAZARDS IDENTIFICATION

#### Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200)

OSHA Defined Hazard: Combustible Dust

#### GHS-Labeling

Statutory basis	OSHA Hazard Communication Standard (29 CFR 1910.1200)
Symbol(s)	None according to OSHA Hazard Communication Standard (29 CFR 1910.1200)
Signal word	Warning
Hazard statement	May form combustible dust concentrations in air.
Precautionary statement: Prevention	None according to OSHA Hazard Communication Standard (29 CFR 1910.1200)
Precautionary statement: Reaction	None according to OSHA Hazard Communication Standard (29 CFR 1910.1200)

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical Nature

Creatine Citrate, content (HPLC, IC) > 99%

Reaction product of:

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

<b>• Creatine Monohydrate</b>		
CAS-No.	6020-87-7	
OSHA Defined Hazard: Combustible Dust		May form combustible dust concentrations in air.
<b>• Citric Acid</b>		
CAS No.	77-92-9	
Eye irritation	Category 2A	Causes serious eye irritation.

# SAFETY DATA SHEET

## Creapure® Citrate

Material no.		Version	3.2 / REG_US
Specification	132507	Revision date	1/9/2020
VA-Nr		Print date	1/9/2020
		Page	2 / 9



### 4. FIRST AID MEASURES

#### Description of first aid measures

If feeling unwell seek medical advice.

#### Inhalation

Move to fresh air.

#### Skin contact

No particular measures required.

#### Eye contact

Keep eye wide open while rinsing.

#### Ingestion

No particular measures required.

### 5. FIREFIGHTING MEASURES

#### Suitable extinguishing media

Water spray, Dry chemical, Carbon dioxide (CO<sub>2</sub>), Foam

#### Unsuitable extinguishing media

High volume water jet

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

When burned, the substance may decompose into the following products of combustion:

- Carbon oxides
- Nitrous gases

Explosion: 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.

#### Special protective equipment for firefighters

In the event of fire, wear self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment, see Chapter 8.

Ensure adequate ventilation.

Avoid dust formation.

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.*, clearing dust surfaces with compressed air).

Nonsparking tools should be used.

#### Environmental precautions

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

#### Methods and material for containment and cleaning up



# SAFETY DATA SHEET

## Creapure® Citrate

Material no.		Version	3.2 / REG_US
Specification	132507	Revision date	1/9/2020
VA-Nr		Print date	1/9/2020
		Page	4 / 9



### Personal protective equipment

#### Respiratory protection

If the occupational exposure limits cannot be met, in exceptional cases suitable respiratory equipment should be worn only for a short period of time.

#### Hand protection

Under normal conditions, not required

#### Eye protection

Safety glasses

#### Skin and body protection

No special protective equipment required

#### Hygiene measures

Do not breathe dust.

Remove and wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	Powder
Color	Colorless to slightly yellow
Odor	Faint
Physical state	Solid

### Information on basic physical and chemical properties

pH	3.2 (68 °F / 20 °C)
Melting point/range	ca. 284 °F (140 °C) Method: Directive 84/449/EEC, A.1
Flash point	Not applicable
Ignition temperature	ca. 1103 °F (ca. 595 °C)  Ignition temperature for deposited dust: no burning at 680°F (360°C)  Ignition temperature for swirling (airborne) dust: 1103°F (595 °C)
Lower explosion limit	Dust: 200 g/m <sup>3</sup>
Minimum ignition energy	100 – 300 mJ
Vapor pressure	< 0.01 hPa (77 °F) (25 °C)
Water solubility	29 g/l (68 °F / 20 °C)
Partition coefficient n-octanol/water	log Pow: < -3.17 (68 °F / 20 °C) Creatine  log Pow: < -1.95 (68 °F / 20 °C) Citric acid
Burning number	BZ 1 – does not ignite

# SAFETY DATA SHEET

## Creapure® Citrate

Material no.		Version	3.2 / REG_US
Specification	132507	Revision date	1/9/2020
VA-Nr		Print date	1/9/2020
		Page	5 / 9



### Further information

Other information No further physicochemical data were determined.

## 10. STABILITY AND REACTIVITY

Stability	No decomposition if stored and applied as directed.
Conditions to avoid	> 329 °F (> 165 °C)
Incompatible materials	Strong acids and strong bases, Strong oxidizing agents, humid air and water
Hazardous decomposition products	Ammonia

## 11. TOXICOLOGICAL INFORMATION

### Product data below

#### Data for: Creatine Citrate

Acute oral toxicity	LD50 rat: > 2000 mg/kg Method: Directive 93/21/EWG (Acute Toxic Class Method) No negative effects. AlzChem test result.
Skin irritation	Rat No skin irritation Method: OECD Test Guideline 404 AlzChem test result.
Eye irritation	Rabbit Mild eye irritation Method: Directive 67/548/EEC, Annex V, B.5 AlzChem test result.
Sensitization	Magnusson & Kligman guinea pig: not sensitizing Method: Directive 96/54/EC, B.6 AlzChem test result.
Respiratory Sensitization	No data are available
Germ Cell Mutagenicity	Not mutagenic in AMES Test. AlzChem test result
Carcinogenicity	No evidence that cancer may be caused
Single Target Organ Toxicity – Single Exposure	No data are available
Single Target Organ Toxicity – Repeated Exposure	No data are available

# SAFETY DATA SHEET

## Creapure® Citrate

Material no.		Version	3.2 / REG_US
Specification	132507	Revision date	1/9/2020
VA-Nr		Print date	1/9/2020
		Page	6 / 9



Reproductive Toxicity	No data are available
Effects on Lactation	No data are available
Further information	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 present is identified as a confirmed, probable, or possible carcinogen by IARC.

#### OSHA:

No component of this product is identified as a carcinogen or a 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). Product data are summarized below.

### Data for Creatine Monohydrate

#### Elimination information (persistence and degradability)

Biodegradability                      Readily biodegradable.

#### Ecotoxicity effects

Toxicity to fish                        No data are available.

Toxicity to bacteria                    No data are available.

Toxicity in aquatic invertebrates    EC50 *Daphnia magna* (Water flea): > 100 mg/l / 48 h  
Method: Directive 92/69/EEC C.2  
AlzChem Test result.

#### Ecotoxicology Assessment

Chronic aquatic toxicity                No data are available.

#### Further information on ecology

Further Information                      Prevent uncontrolled release in the environment. No further ecotoxicological data are available.

---

## 13. DISPOSAL CONSIDERATIONS

### Product

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

### Uncleaned packaging

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

# SAFETY DATA SHEET

Creapure® Citrate

Material no.		Version	3.2 / REG_US
Specification	132507	Revision date	1/9/2020
VA-Nr		Print date	1/9/2020
		Page	7 / 9



## 14. TRANSPORT INFORMATION

### US Department of Transportation (DOT):

This product is not classified as dangerous, per US DOT regulations.

### 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).

### Transport / further information

Not classified as dangerous in the meaning of transport regulations.

## 15. REGULATORY INFORMATION

### Chemical Inventory Status

USA (TSCA) Regulated food, drug, cosmetic

### 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

The components of this product are not subject to the reporting requirements of SARA Title III, section 311/312

#### 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):

# SAFETY DATA SHEET

## Creapure® Citrate

Material no.		Version	3.2 / REG_US
Specification	132507	Revision date	1/9/2020
VA-Nr		Print date	1/9/2020
		Page	8 / 9



All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) Inventory.

### 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.

---

## 16. OTHER INFORMATION

### Further 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 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.



# SAFETY DATA SHEET

## Creapure® Citrate

Material no.		Version	3.2 / REG_US
Specification	132507	Revision date	1/9/2020
VA-Nr		Print date	1/9/2020
		Page	9 / 9



### Legend

<b>ADR</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road
<b>ADN</b>	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
<b>ADNR</b>	European agreement concerning the international carriage of dangerous goods by inland waterways (ADN)
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration Factor
<b>BetrSichV</b>	German Ordinance on Industrial Safety and Health
<b>c. c.</b>	closed cup
<b>CAS</b>	Chemical Abstract Services
<b>CESIO</b>	European Committee of Organic Surfactants and their Intermediates
<b>CFR</b>	Code of Federal Regulations
<b>ChemG</b>	German Chemicals Act
<b>CMR</b>	Carcinogenic-Mutagenic-toxic for Reproduction
<b>DIN</b>	German Institute for Standardization
<b>DNEL</b>	Derived No Effect Level
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>GefStoffV</b>	German Ordinance on Hazardous Substances
<b>GGVSEB</b>	German ordinance for road, rail and inland waterway transportation of dangerous goods
<b>GGVSee</b>	German ordinance for sea transportation of dangerous goods
<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>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>NOS</b>	(Hazard) Not Otherwise Specified
<b>o. c.</b>	open cup
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PBT</b>	Persistent, Bioaccumulative, Toxic
<b>PEC</b>	Predicted Environmental Concentration
<b>PNEC</b>	Predicted No Effect Concentration
<b>RID</b>	Regulations concerning the International Carriage of Dangerous Goods by Rail
<b>TA</b>	Technical Instructions (German Ordinance)
<b>TPR</b>	Third Party Representative (Art. 4)
<b>TRGS</b>	Technical Rules for Hazardous Substances (German Regulations)
<b>VCI</b>	German "Verband der Chemischen Industrie e. V."
<b>vPvB</b>	Very Persistent, Very Bioaccumulative
<b>VOC</b>	Volatile Organic Compounds
<b>VwVwS</b>	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
<b>WGK</b>	German Water Hazard Class
<b>WHO</b>	World Health Organization