

SAFETY DATA SHEET (EC 1907/2006)**CREATINE CITRATE**

Material no.		Version	3.0 / GB
Specification	132507	Revision date	10.12.2010
VA-Nr		Print Date	10.12.2010
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name	CREATINE CITRATE
Company	AlzChem Trostberg GmbH CHEMIEPARK TROSTBERG Dr.-Albert-Frank-Str. 32 D-83308 Trostberg, Germany
Telephone	+49 (0)8621 86-3351
Telefax	+49 (0)8621 86-2880
Email address	alz-pst@alzchem.com
Emergency telephone number	+49 (0)2365 49-2232
Emergency telephone number(Telefax)	+49 (0)2365 49-4423
	Plant fire brigade, Infracor GmbH
Use of the Substance / Preparation	dietary supplement
REACH Registration No.:	if available listed in Chapter. 3

2. HAZARDS IDENTIFICATION**Classification as per Directive 67/548/EC or Directive 1999/45/EC**

In accordance with EC directives or respective national laws, the product does not need to be classified nor labelled.

Other Hazards

Observe product acidity.
May cause eye irritation.
Dusts can form explosive mixtures with air.

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

Creatine Citrate, content (HPLC, IC) > 99%
reaction product of:

• Creatine Monohydrate

CAS-No.	6020-87-7	EC-No.	200-306-6
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• Citric acid

CAS-No.	77-92-9 5949-29-1	EC-No.	201-069-1
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Xi; R36

4. FIRST AID MEASURES**Inhalation**

Move to fresh air.
If feeling unwell seek medical advice.

Skin contact

Wash off with plenty of water.
If skin irritation occurs, call physician.

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Eye contact

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion

Drink plenty of water.

In case of discomfort: Supply with medical care.

Indication of any immediate medical attention and special treatment needed

To the best of our knowledge, experiences about acute systemic health effects in human beings are not available.

Toxic symptoms are not expected.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

water spray, dry chemical, carbon dioxide (CO₂)

Special hazards arising from the substance or mixture

In the case of fire, the following hazardous smoke fumes may be produced:

ammonia

Carbon oxides

nitrous gases

Special protective equipment for fire-fighters

In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Ensure adequate ventilation.

Methods and material for containment and cleaning up

Sweep up and shovel.

Avoid dust formation.

7. HANDLING AND STORAGE

Handling

Precautions for safe handling

Avoid contact with skin, eyes and clothing.

Avoid breathing vapors/dust/mist.

Ensure sufficient ventilation.

Wash contact areas after handling.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition.

Do not smoke.

Take precautionary measures against static discharges.

Dust explosion class

St1

Danger of dust explosion

Storage

Conditions for safe storage, including any incompatibilities

Keep tightly closed.

Suitable materials

polyethylene, polypropylene

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Advice on common storage

Incompatible with oxidizing agents.

German storage class

13 - Non Combustible Solids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Other information**

No substance-specific limiting value being known.

Personal protective equipment**Respiratory protection**

Respirator must be worn if exposed to dust.

Hand protection

Wear protective gloves made of the following materials:.

Glove material nitrile rubber, Recommendation: Camatril 730, Kächele-Cama Latex GmbH (KCL), Germany

Material thickness 0.4 mm

Break through time > 480 min

Method DIN EN 374

Glove material Polychloroprene with natural-latex liner., Recommendation: Camapren 722, Kächele-Cama Latex GmbH (KCL), Germany

Material thickness 0.6 mm

Break through time > 480 min

Method DIN EN 374

Eye protection

safety glasses

Skin and body protection

protective suit

Hygiene measures

Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	powder
Colour	colourless to slightly yellow
Odour	faint
physical state	solid

Information on basic physical and chemical properties

pH	3.2	(20 °C)
Melting point/range	ca. 140 °C	
	Method:	Directive 84/449/EEC, A.1
Boiling point/range	not applicable	
Flash point	not applicable	

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Flammability (solid, gas)	not highly flammable		
Ignition temperature	ca. 595 °C		
Autoinflammability	> 360 °C Flammability of deposited dust no burning at 360°C 595 °C Ignition temperature for swirled dust		
Lower explosion limit	dust:	100 g/m ³	
Minimum ignition energy	100 - 300 mJ		
Vapour pressure	< 0.01 hPa (25 °C)		
Water solubility	29 g/l	(20 °C)	
Partition coefficient (n-octanol/water)	log Pow:	-3.17	(20 °C)
	(Creatine)		
	log Pow:	-1.95	(20 °C)
	(Citric acid)		
Burning number	BZ 1 - does not ignite. Method: Combustibility test in accordance with VDI 2263		

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	temperatures: > 165 °C Avoid dust formation. Keep away from heat and sources of ignition.
Incompatible materials	strong acids and strong bases, strong oxidizing agents, humid air and water
Hazardous decomposition products	Dangerous fumes in the case of fire

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 Rat: > 2000 mg/kg Method: Directive 93/21/EWG (Acute Toxic Class Method) Own test result.
Skin irritation	Rat No skin irritation Method: OECD Test Guideline 404 Own test result.
Eye irritation	Rabbit

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Mild eye irritation

Method: Directive 67/548/EEC, Annex V, B.5.

Own test result.

Sensitization

Magnusson & Kligman guinea pig: not sensitizing

Method: Directive 96/54/EC, B.6

Own test result.

Mutagenicity assessment

Not mutagenic in AMES Test.

Further information

No additional toxicological data are available.

12. ECOLOGICAL INFORMATION**Elimination information (persistence and degradability)**

Biodegradability

readily biodegradable

Ecotoxicity effects

Toxicity to daphnia

EC50 Daphnia magna: > 100 mg/l / 48 h

Method: Directive 92/69/EEC C.2

Own test result.

Further information on ecology

Further Information

Prevent uncontrolled release in the environment.

No further ecotoxicological data are available.

13. DISPOSAL CONSIDERATIONS**Product**

In compliance with actual waste regulations, the product must be brought to a suitable disposal plant.

Uncleaned packaging

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

14. TRANSPORT INFORMATION**Transport/further information**

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION**Labelling according to EC Directives**

Statutory basis/list

Not subject to labelling provisions by Directive 67/548/EEC.

S-phrase(s)

S16

Keep away from sources of ignition - No smoking.

S22

Do not breathe dust.

S26

In case of contact with eyes, rinse immediately with

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plenty of water and seek medical advice.

registration

Australia (AICS)	not listed/registered
Canada (DSL)	not listed/registered
Korea (TCCL)	not listed/registered
Europe (EINECS/ELINCS)	not listed/registered all ingredients listed
Japan (MITI)	not listed/registered
Philippines (PICCS)	not listed/registered
USA (TSCA)	not listed/registered
China	not listed/registered

National legislation

16. OTHER INFORMATION**Further information**

Changes since the last version are highlighted in the margin. 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.