

Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II,
Amended by COMMISSION REGULATION (EU) 2015/830,
According to REGULATION (EC) No 1272/2008

Creatine monohydrate

Version 2.0

Issue date: 29-01-2024

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SDS Record Number: CSSS-TCO-010-128789

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name: Creatine monohydrate
Additional identification: Not available
Identification of the product: CAS# 6020-87-7; EC# 200-306-6
Index Number: Not available
REACH registration No.: Not available

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

1.2.1 Identified uses:

Nutrition Additives.

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative):
Supplier(Manufacturer): Inner Mongolia Chengxin YongAn Chemical Co., Ltd
Address: Lantai Road North, Wusitai Town, Alxa Zuoqi Economic Development Zone, Alxa City, Inner Mongolia Province
Contact person(E-mail): Mark.li(har k.li@chengxin.com)
Telephone: +86-18630108707; +86 311 85695069
Fax: +86 311 84637312

1.4 Emergency telephone Number:

+86 311 85695069 (Only available during office hours (9:00a.m.-17:30p.m.))

Available outside office hours?

YES

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NO

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Section 2 Hazards Identification

2.1 Classification of the substance or mixture:

2.1.1 Classification:

According to REGULATION (EC) No 1272/2008, based on available data, the classification criteria are not met:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard codes
Not classified	N/A

2.2 label elements:

Hazard Pictograms: No hazard pictogram is used.
Signal Word(S): No signal word is used.
Hazard Statement: Not applicable.
Precautionary statement: Not applicable.

2.3 Other hazards:

Product name: Creatine monohydrate

SDS EU

Not available.

Section 3 Composition/information on ingredients

Substance/Mixture:

Substance

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Creatine Monohydrate	N/A	6020-87-7	200-306-6	≥99.5%

Section 4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Move to fresh air.

4.1.2 In case of skin contact:

Wash off immediately with plenty of water. Change contaminated clothing.

4.1.3 In case of eyes contact:

Keep eye wide open while rinsing.

4.1.4 In case of ingestion:

Consult a physician for severe cases.

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

The product is not classified as harmful to human health effect.

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

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

Water spray, dry chemical, carbon dioxide (CO₂), foam.

Unsuitable extinguishing media:

High volume water jet

5.2 Special hazards arising from the substance or mixture

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

Carbon oxides nitrous gases

5.3 Advice for firefighters:

Wear self contained breathing apparatus for fire fighting if necessary.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid contact with skin and eyes. For personal protection see section 8.

6.1.2 For emergency responders:

Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

6.2 Environmental Precautions:

Do not let large amount of product enter drains.

6.3 Methods and material for Containment and Cleaning up:

Sweep up and shovel into suitable containers for disposal.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Section 7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures:

Ensure good ventilation/exhaustion at the workplace. Wash thoroughly after handling.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Keep tightly closed. Avoid light, moisture and high temperature. Stored under cool room temperature, protect from heat origin and moisture. Long Time storage or unexpected reasons may cause lumpy or block. Cool to room temperature under 35°C in low humidity warehouse, prevent from direct sunshine or heat source.

7.3 Specific end use(s):

Not applicable.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:

8.1.1 Occupational exposure limits:

Not available.

8.1.2 Additional exposure limits under the conditions of use:

Not available.

8.1.3 DNEL/DMEL and PNEC-Values:

Not available.

8.2 Exposure controls:

8.2.1 Appropriate engineering controls:

Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection:

Safety glasses.

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.

Body protection:

Protective suit.

Respiratory protection:

In case product dust is released: Dust protection mask in accordance with EN 149 FFP2.

Thermal hazards:

Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls:

Avoid discharge into the environment.
According to local regulations, Federal and official regulations.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:

Crystalline or Powder

Colour:

White

Odour:

Odorless

Odour threshold:

Not available

pH:

Not available

Melting point/range (°C):

ca. 303 °C

Boiling point/range (°C):

Not available

Flash point (°C):

Not available

Evaporation rate:

Not available

Flammability limit - lower (%):	Not available
Flammability (solid, gas):	Non flammable
Ignition temperature (°C):	Not available
Upper/lower explosive limits:	Not available
Vapour pressure (25°C):	0.001 mm Hg
Vapour density:	Not available
Density:	ca. 1.33 g/cm ³ (25 °C)
Bulk density (kg/m ³):	Not available
Water solubility (g/l):	15.8 g/L(20 °C)
n-Octanol/Water (log Po/w):	log Pow< -2(20 °C)
Auto-ignition temperature:	> 400 °C
Decomposition temperature:	ca. 303 °C
Viscosity, dynamic (mPa.s):	Not available
Explosive properties:	Non explosive
Oxidising properties:	Not available
Molecular Formula:	C4H9N3O2
Molecular Weight:	149.15

9.2. Other information:

Fat solubility(solvent-oil to be specified) etc:	Not available
Surface tension:	Not available
Dissociation constant in water(pKa):	2.63(25 °C)
Oxidation-reduction Potential:	Not available

Section 10 Stability and reactivity

10.1 Reactivity:	The substance is stable under normal storage and handling conditions.
10.2 Chemical stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
10.3 Possibility of hazardous reactions:	No dangerous reactions known.
10.4 Conditions to avoid:	Incompatible materials. Exposure or Sealed in environmental temperature higher than 40 °C, there will be slight moisture or smell comes out from material, but it doesn't affect quality and safety for using.
10.5 Incompatible materials:	Strong acids and strong bases, strong oxidizing agents.
10.6 Hazardous decomposition products:	Carbon oxides nitrous gases.

Section 11 Toxicological Information

11.1 Information on toxicological effects:	
Acute toxicity:	
LD50(Oral, Rat):	Not available
LD50(Dermal, Rabbit):	Not available
LC50(Inhalation, Rat):	Not available
Skin corrosion/Irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified

Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

Section 12 Ecological information

12.1 Toxicity:

Acute (short-term) toxicity:

LC50(96h, Fish):	> 100 mg/L
EC50(48h, Crustacea):	> 1 000 mg/L
EC50(72h, Algae/aquatic plants):	> 100 mg/L

Chronic (long-term) toxicity:

NOEC(Fish):	Not available
NOEC(Crustacea):	Not available
NOEC (Algae/aquatic plants):	>= 100 mg/L

12.2 Persistence and degradability: Readily biodegradable.

12.3 Bioaccumulative potential: Not available.

12.4 Mobility in soil: Not available.

12.5 Results of PBT and vPvB assessment: Not available.

12.6 Other adverse effects: Not available.

Section 13 Disposal considerations

13.1 Waste treatment methods: Any disposal practice must be in compliance with all local and national laws and regulations. Do not dump into any sewers, on the ground, or into any body of water.

Section 14 Transport information

	Land transport (ADR/RID)	Inland waterways (ADN)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	Not regulated	Not regulated	Not regulated	Not regulated
UN Proper shipping name	Not regulated	Not regulated	Not regulated	Not regulated
Transport hazard Class(es)	Not regulated	Not regulated	Not regulated	Not regulated
Packing group	Not regulated	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	内蒙古诚信永安化工有限公司	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of Marpol and the IBC Code	Not regulated	Not regulated	Not regulated	Not regulated

Section 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Relevant information regarding authorization: Not applicable.

Product name: Creatine monohydrate

Relevant information regarding restriction:

Not applicable.

Other EU regulations:

Employment restrictions concerning young person must be observed.

For use only by technically qualified individuals.

Other National regulations:

Not applicable

15.2 Chemical safety assessment

YES

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NO

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Section 16 Other information

16.1 Indication of changes:

Version 1.0 Amended by (EU) 2015/830

16.2 Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation for rail International transportation of Dangerous goods

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: Code international maritime dangerous goods code

ICAO: International Civil Aviation Organization

IATA: International Air Transport Association

LC50: median lethal concentration

EC50: The effective concentration of substance that causes 50% of the maximum response.

NOEC: No Observed Effect Concentration

DNEL: derived no-effect level

PNEC: predicted no-effect concentration

16.3 Key literature references and sources for data

ECHA Registered substances data

16.4 Training instructions:

Not applicable

16.5 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.6 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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