

KiOnutrime-Cs, KiOnutrime-CsG, KiOfine-B, KiOfine-CsG, KiOsmetine-CsG, KiOsmetine-CsH, KiOsmetine-CS, KiOsmetine-CsL, KiOsmetine-P, KitoGreen

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 01/02/2014

Revision date: 16/10/2020

Version: 4.0

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

1.1. Product identifier

Product form : Substance
Trade name : KiOnutrime-Cs, KiOnutrime-CsG, KiOfine-B, KiOfine-CsG, KiOsmetine-CsG, KiOsmetine-CsH, KiOsmetine-Cs, KiOsmetine-CsL, KiOsmetine-P, KitoGreen
Formula : (C6H11NO4)_n

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

1.2.1. Relevant identified uses

Intended for general public

Use of the substance/mixture : Ingredient for food supplements, medical devices (oral), cosmetics, encapsulating agent, processing aid (drinks)

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

KITOZYME SA
Parc Industriel des Hauts Sarts Zone 2, 680, Rue de Milmort
4040 HERSTAL - BELGIQUE
T +32 42 59 85 00
info@kitozyme.com

1.4. Emergency telephone number

Country	Organization / Company	Address	Emergency	Comment
Belgium	Poison Control Center p/a Hôpital central de la base – Reine Astrid	Rue Bruyn 1 1120 Brussel	+32 70 245 245	/
France	ORFILA	/	+33 1 45 42 59 59	/

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Child-resistant fastening : Not applicable

Tactile warning : Not applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : Chitosan from fungal origin

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
CHITOSAN	(CAS-No.) 9012-76-4	100	Not classified

3.2. Mixtures

Not applicable

KiOnutrime-Cs, KiOnutrime-CsG, KiOfine-B, KiOfine-CsG, KiOsmetine-CsG, KiOsmetine-CsH, KiOsmetine-CS, KiOsmetine-CsL, KiOsmetine-P, KitoGreen

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 01/02/2014

Revision date: 16/10/2020

Version: 4.0

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
------------------	--

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent firefighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
----------------------	-----------------------------------

6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.
-------------------------	--

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
-------------------------------	---

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

KiOnutrime-Cs, KiOnutrime-CsG, KiOfine-B, KiOfine-CsG, KiOsmetine-CsG, KiOsmetine-CsH, KiOsmetine-CS, KiOsmetine-CsL, KiOsmetine-P, KitoGreen

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 01/02/2014

Revision date: 16/10/2020

Version: 4.0

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: powders.
Colour	: White to slightly brownish.
Odour	: None.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: < 1
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

No additional information available

10.2. Chemical stability

Not established.

KiOnutrime-Cs, KiOnutrime-CsG, KiOfine-B, KiOfine-CsG, KiOsmetine-CsG, KiOsmetine-CsH, KiOsmetine-CS, KiOsmetine-CsL, KiOsmetine-P, KitoGreen

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 01/02/2014

Revision date: 16/10/2020

Version: 4.0

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

KiOnutrime-Cs, KiOnutrime-CsG, KiOfine-B, KiOfine-CsG, KiOsmetine-CsG; KiOsmetine-CsH, KiOsmetine-Cs, KiOsmetine-CsL, KiOsmetine-P, KitoGreen

EC50 Daphnia 1	> 10588 mg/l 48h/Daphnia magna
ErC50 (algae)	> 10316 mg/l 72h/Pseudokirchneriella subcapitata

12.2. Persistence and degradability

KiOnutrime-Cs, KiOnutrime-CsG, KiOfine-B, KiOfine-CsG, KiOsmetine-CsG; KiOsmetine-CsH, KiOsmetine-Cs, KiOsmetine-CsL, KiOsmetine-P, KitoGreen

Persistence and degradability	Not established.
-------------------------------	------------------

12.3. Bioaccumulative potential

KiOnutrime-Cs, KiOnutrime-CsG, KiOfine-B, KiOfine-CsG, KiOsmetine-CsG; KiOsmetine-CsH, KiOsmetine-Cs, KiOsmetine-CsL, KiOsmetine-P, KitoGreen

Bioaccumulative potential	Not established.
---------------------------	------------------

KiOnutrime-Cs, KiOnutrime-CsG, KiOfine-B, KiOfine-CsG, KiOsmetine-CsG, KiOsmetine-CsH, KiOsmetine-CS, KiOsmetine-CsL, KiOsmetine-P, KitoGreen

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 01/02/2014

Revision date: 16/10/2020

Version: 4.0

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : Not applicable

UN-No. (IMDG) : Not applicable

UN-No. (IATA) : Not applicable

UN-No. (ADN) : Not applicable

UN-No. (RID) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable

Proper Shipping Name (IMDG) : Not applicable

Proper Shipping Name (IATA) : Not applicable

Proper Shipping Name (ADN) : Not applicable

Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

KiOnutrime-Cs, KiOnutrime-CsG, KiOfine-B, KiOfine-CsG, KiOsmetine-CsG, KiOsmetine-CsH, KiOsmetine-CS, KiOsmetine-CsL, KiOsmetine-P, KitoGreen

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 01/02/2014

Revision date: 16/10/2020

Version: 4.0

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

KiOnutrime-Cs, KiOnutrime-CsG, KiOfine-B, KiOfine-CsG, KiOsmetine-CsG; KiOsmetine-CsH, KiOsmetine-Cs, KiOqmetine-CsL, KiOsmetine-P, KitoGreen is not on the REACH Candidate List

KiOnutrime-Cs, KiOnutrime-CsG, KiOfine-B, KiOfine-CsG, KiOsmetine-CsG; KiOsmetine-CsH, KiOsmetine-Cs, KiOqmetine-CsL, KiOsmetine-P, KitoGreen is not on the REACH Annex XIV List

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Comments
	Version	Modified	
	Section 1.1	Modified	Trade name
	Section 12	Modified	Trade name
	Section 15.1	Modified	Trade name

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

:

KiOnutrime-Cs, KiOnutrime-CsG, KiOfine-B, KiOfine-CsG, KiOsmetine-CsG, KiOsmetine-CsH, KiOsmetine-CS, KiOsmetine-CsL, KiOsmetine-P, KitoGreen

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 01/02/2014

Revision date: 16/10/2020

Version: 4.0

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. KitoZyme SA makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information.

Any user of this product is responsible for determining the suitability of KitoZyme's products for its particular application. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing KitoZyme products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact KitoZyme.

FDS UE (Annexe II REACH) - Cerello

*"This Material Safety Data Sheet ("MSDS") is subject to the General Terms & Conditions of Intertek which are available on request and accessible at <http://www.intertek.com/terms/>
This MSDS was issued solely on the basis of instructions, information and documents provided by yourself or by one of your representatives, (subcontractors, suppliers...) and for which you warrant the accuracy and completeness. Intertek's liability can't be sought on this basis, for any damages.
You understand and agree that the MSDS is issued according to the current European regulation in effect on European Union at the time of issue of the MSDS.
This document cannot be communicated except in full, to the person with a need-to-know basis. Any unauthorized alteration or falsification of the content of this MSDS is forbidden and Intertek may prosecute the offenders to the fullest extent of the law.
The only version of the MSDS legally binding on Intertek is the last version provided by the author of the MSDS.*