

SB Chitosan FD 10%

Date of issue: 27-01-2022 Revision date: NA/ Version: 1.0

Safety Data Sheet

according to Regulation (EU) 2015/830

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

1.1. Product identifier

Product form : Mixture (chitosane in acetic acid 5%)

Trade name : SB Chitosan FD 10%

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

1.2.1. Relevant identified uses

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Soil Biology Ltd Unit 30 Branbridges Industrial Estate East Peckham TN12 5HF United Kingdom

Tel: +441892 883759 Email: info@soilbiology.uk

1.4. Emergency telephone number

Emergency phone no: +44(0)1892 883759

Contact: Call 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

SB Chitosan FD 10% is not classified. See section 3.2 for chitosan vinegar and acetic acid.

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard statements:

H319 Causes serious eye irritation.

H315 Causes skin irritation.

Hazard pictograms:







Signal words: Warning

Precautionary statements:

P102 Keep out of reach of children.

P280 Wear personal protective equipment / face protection.

P332+P313 If skin irritation occurs: Get medical advice / attention.

P101 If medical advice is needed, have product container or label at hand.

P264 Wash ... thoroughly after handling

27-01-2022 EN (English) 1/8

SB Chitosan FD 10%



Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 27-01-2022 Revision date: NA/ Version: 1.0

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
CHITOSAN	CAS-No. 9012-76-4	10	Not classified
ACETIC ACID (4-8%) / VINEGAR, EXT	CAS-No. 64-19-7 / CAS-No. 90132-02-8	90	Flam. Liq. 3 H226, Skin Corr. 1A H314, Eye Dam. 1 H318, Classification note according to Annex VI to the CLP Regulation: B

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 : Get medical advice/attention imme

: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for

rescue workers. Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact

: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention

First-aid measures after eye contact

: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention if pain, blinking or

redness persists.

First-aid measures after ingestion

: Rinse mouth. Have the subject drink as much water as possible. 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

27-01-2022 EN (English) 2/8

SB Chitosan FD 10%



Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 27-01-2022 Revision date: NA/ Version: 1.0

: Equip cleanup crew with proper protection. Protective equipment

: Ventilate area. **Emergency procedures**

6.2. **Environmental precautions**

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

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.

Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

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

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store only in the original container. Store in a cool, well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep container closed when not in use. Keep containers away from any incompatible materials, see section 10 for details

Incompatible products Incompatible materials

: Strong bases. Strong acids. : Sources of ignition. Direct sunlight.

Specific end use(s)

No additional information available

27-01-2022 EN (English) 3/8

SB Chitosan FD 10%



according to Regulation (EU) 2015/830

Date of issue: 27-01-2022

Revision date: NA/

Version: 1.0

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

Acetic Acid (64-19-	7)	W.	
ACGIH	ACGIH TWA (ppm)	10 ppm	
ACGIH	ACGIH STEL (ppm)	15 ppm	
OSHA	OSHA PEL (TWA) (mg/m³)	25 mg/m³	
OSHA	OSHA PEL (TWA) (ppm)	10 ppm	
IDLH	US IDLH (ppm)	50 ppm	
NIOSH	NIOSH REL (TWA) (mg/m³)	25 mg/m³	
NIOSH	NIOSH REL (TWA) (ppm)	10 ppm	
NIOSH	NIOSH REL (STEL) (mg/m³)	37 mg/m³	
NIOSH	NIOSH REL (STEL) (ppm)	15 ppm	

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 : Liquid

Appearance : Brownish viscous liquid

Colour : Brownish
Odour : Vinegar like
Odour threshold : No data available

pH : 4-5.5

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : No data available

27-01-2022 EN (English) 4/8

SB Chitosan FD 10%

SOIL BIOLOGY Invest in Soil

according to Regulation (EU) 2015/830 Date of issue: 27-01-2022

Revision date: NA/ Version: 1.0

Boiling point : No data available Flash point : No data available Auto-ignition temperature No data available Decomposition temperature No data available : No data available Flammability (solid, gas) Vapour pressure : No data available Relative vapour density at 20 °C : No data available : No data available Relative density : Water soluble Solubility : No data available Log Pow 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

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

27-01-2022 EN (English) 5/8

SB Chitosan FD 10%

SOIL BIOLOGY Invest in Soil

according to Regulation (EU) 2015/830 Date of issue: 27-01-2022

Revision date: NA/

Version: 1.0

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 : May cause Skin irritation
Serious eye damage/irritation : May cause Eye irritation

 Respiratory or skin sensitisation
 : 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

Potential adverse human health effects

and symptoms : Not Classified

SECTION 12: Ecological information

12.1. Toxicity

SB Chitosan FD 10%

Not established.

12.2. Persistence and degradability

SB	Ch	itosan	FD	10%

Persistence and degradability Not established.

12.3. Bioaccumulative potential

SB Chitosan FD 10%

Bioaccumulative potential Not established.

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.

27-01-2022 EN (English) 6/8

SB Chitosan FD 10%



according to Regulation (EU) 2015/830

Date of issue: 27-01-2022

Revision date: NA/

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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

27-01-2022 EN (English) 7/8

SB Chitosan FD 10%



according to Regulation (EU) 2015/830

Date of issue: 27-01-2022

Revision date: NA/

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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

SB Chitosan FD 10% is not on the REACH Candidate List

SB Chitosan FD 10% 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: Otherinformation

Indication of changes:

Section	Changed item	Change	Comments

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:

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Soil Biology Ltd 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.

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27-01-2022 EN (English) 8/8