

# Asset

# Asset Chitosan

## Material Safety Data Sheet

Issue: 01 - Sept 2019

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

**1.1 Product Identifier** Asset Chitosan

**1.2. Relevant identified uses of the substance or mixture and uses advised against**  
Relevant uses: Use as a professional use fertiliser.

**1.3. Details of the supplier of the safety data sheet**

Company: Indigrow Ltd, The Old Bakery, Hyde End Lane, Brimpton, Berkshire, RG7 4RH. UK.  
Phone: +44 (0) 1189 710 995  
Email: growth@indigrow.com

**1.4. Emergency telephone number** +44 (0) 7725 962 366

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### SECTION 2: Hazards Identification

**2.1. Classification of the substance or mixture**

Classification under CLP: This product has no classification under CLP.

**2.2. Label elements**

Label elements: This product has no label elements.

**2.3. Other hazards**

PBT: This product is not identified as a PBT/vPvB substance.

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### SECTION 3: Composition/Information on Ingredients

**3.1. Substances**

Not applicable

**3.2. Mixtures**

Ingredient Name	Percentage (%)	CAS
Chitosan oligosaccharide	10%	148411-57-8

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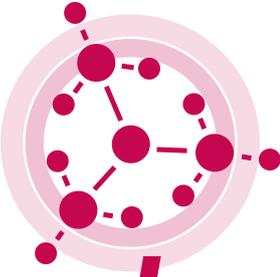
### SECTION 4: First-Aid Measures

**4.1. Description of first aid measures**

Skin contact: Wash immediately with plenty of soap and water.  
Eye contact: Bathe the eye with running water for 15 minutes.  
Ingestion: Do not induce vomiting. Wash out mouth with water.  
Inhalation: Move to fresh air in case of accidental inhalation of vapours.

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

Skin contact: No data available.  
Eye contact: No data available.  
Ingestion: No data available.  
Inhalation: No data available.  
Delayed / immediate effects: No data available.



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

Immediate/special treatment: Show this safety data sheet to the doctor in attendance.

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## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing media

Suitable extinguishing media for the surrounding fire should be used.

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

Exposure hazards: Not applicable.

### 5.3. Advice for fire-fighters

Wear protective clothing to prevent contact with skin and eyes.

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## SECTION 6: Accidental Release Measures

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

Refer to section 8 of SDS for personal protection details.

### 6.2. Environmental precautions

Do not discharge into drains or rivers.

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

Clean-up procedures: Absorb into dry earth or sand.

### 6.4. Reference to other sections

Refer to section 8 of SDS. Refer to section 13 of SDS.

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## SECTION 7: Handling and Storage

### 7.1. Precautions for safe handling

Handling requirements: Not applicable.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. Keep away from direct sunlight.

Suitable packaging: Must only be kept in original packaging.

### 7.3. Specific end use(s)

PC12: Fertilisers

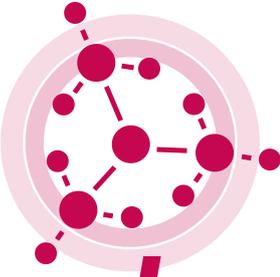
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## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC: No data available.



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### 8.2. Exposure controls

Engineering measures:	Not applicable.
Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses.
Skin protection:	Protective clothing.
Environmental:	Not applicable.

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## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

State:	Liquid
Colour:	Dark Brown
Odour:	Characteristic
Melting point/freezing point:	40-80°C
Flash point:	>100°C
Density:	0.89 g/cm <sup>3</sup> (20°C)
Water solubility:	Insoluble

### 9.2. Other information

Other information:	No data available.
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## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

No data available.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

Direct sunlight. Extremes of temperature.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

No data available.

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## SECTION 11: Toxicological Information

### 11.1. Information on toxicological effects

Toxicity values:	No data available.
Skin contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.
Inhalation:	No data available.
Delayed / immediate effects:	No data available.
Other information:	Not applicable.



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### 11.2. Other Information

No data available.

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## SECTION 12: Ecological Information

### 12.1. Toxicity

No data available.

### 12.2. Persistence and degradability

No data available.

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

No data available.

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## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

Disposal operations:	Dispose of waste and residues in accordance with local authority requirements.
Recovery operations:	Dispose of in compliance with all local and national requirements.
Disposal of packaging:	Empty containers should be disposed of in accordance with local and national regulations.
NB:	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

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## SECTION 14: Transport Information

This product is not regulated for transport (ADR/RID,IMDG,IATA)

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## SECTION 15: Regulatory Information

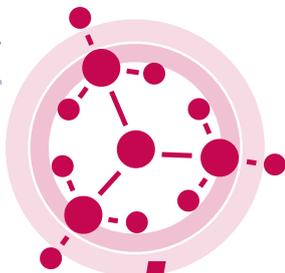
### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations:	Classified and labelled in accordance with regulation 1999/45/EC, 1272/2008, the statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulations and the EC Fertiliser Regulations 2003, Regulation (EC) No 1907/2006.
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### 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

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## 16. OTHER INFORMATION

The information contained herein relates only to the designated formulation and may not be valid if product is used in combination with other substances. The information is to the best of our knowledge, belief and understanding, true, accurate and reliable at the date of issue. However, the information may neither be exhaustive or complete, and no warranty, guarantee or liability concerning the accuracy or completeness of the information is expressed or implied. It is the user's risk and sole responsibility to verify and satisfy their own criteria and duty of care concerning the validity of the information in relation to their application of the product.

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