



SAFETY DATA SHEET SYMBIO CAVIAR

SDS COMPLETED 23RD JUNE 2015

VERSION 01
REVISION NUMBER: N/A

1. Identification of the Substance and the Company

1.1 Product name

Symbio Caviar Registration Number : 01-2119555297-30-0001

1.2 Identified use(s)

Amenity and Horticultural Fertiliser Use(s) advised against : None Known

1.3 Manufacturer/Supplier

Company name:

Eco Solutions (C&R) Ltd T/a Symbio
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Combe Lane
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Surrey
GU8 5SZ

Tel: +44 (0) 1428 685762

Fax: +44 (0)1428 685702

Email: info@symbio.co.uk

1.4 Emergency Telephone No.

Tel: +44 (0) 1428 685762

2. Hazards Identification

2.1. Classification of the substance or mixture

This product is not subject to classification in accordance to CLP EC 1272/2008, DSD Directive 67/548/EEC or DPD Directive 1999/45/EC.

2.2 Label elements

No pictogram required

2.3 Other Hazards

This product does not contain any PBT or vPvB substances.

3. Composition/Information on Ingredients

The condensed and pelletised by-product of the manufacture of amino acids by fermentation.

Name	Product Identifier	Classification DSD / CLP
Vinasses granules	EC No.: 932-179-4 01-2119555297-30-0001	Not Classified



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4. First Aid Measures

4.1 Description of First Aid Measures

Inhalation	In the event of inhalation remove the person exposed to fresh air
Skin	May cause slight irritation, wash area with soap and water
Eyes	May cause irritation, flood eye with water
Ingestion	No specific first aid measures are required

4.2 Most Important Symptoms and Effects, both Acute and Delayed:

Not Known

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed:

Treat Symptomatically

5. Fire-Fighting Measures

5.1 Extinguishing Media

The product itself does not burn, use a suitable extinguisher for surrounding area.

5.2 Special Hazards arising from the Substance

With heat, product produces carbon, carbon monoxide, carbon dioxide, nitrogen oxides and smoke.

5.3 Advice for Fire Fighters

Fire-fighters should wear full protective clothing and self-contained breathing apparatus operated in positive mode.

6. Accidental Release Measures

6.1 Personal Precautions,

Follow the procedures for safe handling as listed in this safety data Protective Equipment and sheet.
Emergency Procedures

6.2 Environmental precautions

Biodegradable, increases BOD and COD – see 12.

Contain spills and shovel into salvage container for disposal. Prevent direct discharge into watercourses or lakes due to high BOD. If this does occur, inform Local Authorities at once.

6.3 Methods and Material for

Move containers/bags from spill area. Vacuum or sweep up material

Containment & Cleaning up and place in a designated labelled waste container. Disposal of via a dedicated waste disposal contractor.

6.4 Reference to other Sections

See sections 8 and 13.



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7. Handling and Storage

7.1 Precautions for Safe Handling

Avoid contact with skin, eyes & clothing. Wear recommended PPE. Do not expose to high temperatures (< 40 °C) for an extended period of time to avoid the risk of Maillard reactions.

7.2 Conditions for Safe Storage, including any incompatibilities

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area away from incompatible materials (see 10). Keep container tightly closed and sealed until ready for use. Any containers/bags that have been opened should be resealed and kept upright to prevent spillage.

7.3 Specific End Uses

Not available

8. Exposure controls/ Personal protection

8.1 Control Parameters

This product does not contain any relevant quantities of materials with critical values that have to be controlled.

8.2 Exposure Controls

Personal protection:	None under normal conditions
Eye protection:	Safety glasses or goggles may be desirable when emptying containers or drums. Avoid contact with eyes.
Hand protection:	Not required, butyl rubber gloves advised. Avoid prolonged contact with skin. Wash hands before breaks and at the end of work.
Body Protection:	Not required but suitable protective clothing is recommended.
Respiratory protection:	Not required except in the case of aerosol formation. Do not breathe spray.
Thermal Hazards:	Avoid heating over 40 °C

9. Physical and Chemical properties

9.1 Information on basic physical and chemical properties

Appearance at 25°C	Solid Prill
Odour	Weak Odour
Odour threshold	Not determined
pH value as is	Not applicable
Freezing point	Not applicable
Initial boiling point (°C)	Not applicable
Flash point (°C)	Not applicable
Evaporation rate	Not applicable
Flammability	Will not support combustion
Explosion limits (lower) (kg/ m ³)	Not applicable
Vapour pressure	Not applicable
Relative Density at 20 °C (kg/l)	0.8 typical, dependant on the particular diameter
Solubility in water (% weight)	Forms infinite aqueous solution. Soluble in polar solvents
Auto ignition temperature	Not known



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Thermal decomposition (°C)	Begins about 60
Viscosity (cps) at 20°C	Not Applicable
Oxidising properties	Not considered to have oxidising properties
Explosive properties	Not considered to have explosive properties

9.2 Other information

No other relevant information

10. Stability and Reactivity

10.1 Reactivity

This product is not reactive under normal use

10.2 Chemical Stability

The Product is stable under the recommended handling and storage conditions in Section 7.

10.3 Possibility of Hazardous

No Hazardous Reactions known under normal use reactions

10.4 Conditions to avoid

Stable unless diluted with water when yeast, mould and some harmless bacterial (e.g. Lactobacillus spp.) growth may occur in warm temperatures. Pathogens will not grow in undiluted product due to high osmotic pressure and low water activity. Store at <40 °C

10.5 Incompatible Materials

Strong acids and alkalis, oxidising agents, ammonia, ammonium salts.

10.6 Hazardous decomposition

Thermal decomposition can produce carbon, carbon monoxide, products carbon dioxide, nitrogen oxides and smoke.

11. Toxicological information

11.1 Information on Toxicological Effects

Under normal use Health injuries are not known or expected

(a) acute toxicity	No acute toxic effects within limits for classification
(b) skin corrosion/irritation	May cause slight irritation to skin, but not classified as irritant
(c) serious eye damage/irritation	May cause slight irritation to eyes, but not classified as irritant
(d) respiratory or skin sensitisation	None of the components considered to be potential sensitisers
(e) germ cell mutagenicity	None of the components considered to be mutagenic
(f) carcinogenicity	None of the components considered to be carcinogenic
(g) reproductive toxicity	None of the components considered to be toxic for reproduction
(h) STOT-single exposure	No specific organ toxicity
(i) STOT-repeated exposure	No specific organ toxicity
(j) aspiration hazard	Not an aspiration hazard



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12. Ecological information

12.1 Toxicity

No significant environmental hazard or adverse effect from human or animal exposure resulting from accidental release of this material is anticipated. Its components are used in food and feed and there is no LD₅₀

COD (mgO₂/g ds) About 550

BOD (mgO₂/g ds) About 500

Ecotoxicity Due to its high BOD, accidental discharge of large quantities into rivers or lakes will cause temporary algal growth ('bloom') and dissolved oxygen reduction with possible deleterious effects on fish.

12.2 Persistence and Degradability

All organic components known to degrade quickly

12.3 Bioaccumulative potential

None of the components expected to bioaccumulate

12.4 Mobility in soil

The components have a high mobility in soil

12.5 Results of PBT and vPvB :

This product does not contain any PBT or vPvB substances assessment

12.6 Other adverse effects

None known

13. Disposal considerations

13.1 Waste Treatment Methods :

Will not be a specific hazard to waste water treatment plants, but does have very high biological oxygen demand. Confirm disposal methods in accordance with local regulations.

14. Transport information

14.1 UN Number

Not Applicable

14.2 UN Proper Shipping Name

Not Applicable

14.3 Transport and Hazard Class(es)

Not Applicable

14.4 Packing Group

Not Applicable



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14.5 Environmental Hazards

Not Applicable

14.6 Special Precautions for User

Not Applicable

14.7 Transport in bulk according:

Not Applicable to Annex II of MARPOL73/78 and the IBC Code

15. Regulatory information

15.1 Safety, health and Environmental Regulations/Legislation Specific for the Substance:

Complies with Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and amendments. The components listed in this datasheet are either exempt or registered under REACH.

15.2 Chemical Safety Assessment

Not Applicable

16. Other information

Symbol(s)	None
R and or S phrases	None
H and P Statements	None

Disclaimer

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