

**SDS COMPLETED 23RD JUNE 2015** 

Version 01

REVISION NUMBER: N/A

# 1. Identification of the Substance and the Company

## 1.1 Product name

CMS Liquid

Registration Number 01-2119555297-30-0001

## 1.2 Identified use(s)

Feed and Fertiliser Purposes

Use(s) advised against None Known

# 1.3 Manufacturer/Supplier

## Company name:

Origin Amenity Solutions Ltd 1-3 Freeman Court, Jarman Way, Orchard Road, Royston,

Hortford

Hertfordshire,

SG8 5HW

**Tel:** 0800 138 7222

Email: sales.symbio@originamenity.com

## 1.4 Emergency Telephone No. :

**Emergency phone No.** 0800 138 7222 (09.00 – 17.00 GMT Monday – Friday)

National emergency telephone number 111

#### 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 by-product of the manufacture of amino acids by fermentation

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



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# 4. First Aid Measures

#### 4.1 Description of First Aid Measures

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, Protective Equipment and Emergency Procedures

Follow the procedures for safe handling as listed in this safety data sheet

# 6.2 Environmental precautions

Biodegradable, increases BOD and COD – see 12.

Contain spills with sand and shovel into salvage container for disposal. Hose down small spillages or residue (slippery when wet) into sewers serviced by wastewater plant with plenty of water. 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 Containment & Cleaning up

Contain and control the leaks or spills with non-combustible absorbent material materials such as earth, vermiculite, diatomaceous earth in drums for waste disposal.

#### 6.4 Reference to other Sections

See sections 8 and 13.

## 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.



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## 7.2 Conditions for Safe Storage, including any incompatibilities

Store in ventilated tanks (mild steel, stainless steel, polyethylene, PVC) at ambient temperatures. Avoid microbiological contamination or dilution with water. Storage temperature, ideally ambient but ensure < 40°C if heating is required for handling

#### 7.3 Specific End Uses

Typical end uses include; animal feed component and industrial use.

## 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 Low visocisty brown liquid

Odour Very weak smell
Odour threshold Not determined
pH value as is About 4.5

Freezing point < 0 (will become more viscous)

Initial boiling point (°C) > 100Flash point (°C) > 100

Evaporation rate Not known. Similar to water Flammability Will not support combustion

 $\begin{array}{lll} \text{Explosion limits (lower) (kg/ m^3)} & \text{Not applicable} \\ \text{Vapour pressure} & \text{As for water} \\ \text{Relative Density at 20 °C (kg/l)} & \text{1.25-1.32} \\ \end{array}$ 

Solubility in water (% weight) Forms infinite aqueous solution. Soluble in polar solvents

Auto ignition temperature Not known
Thermal decomposition (°C) Not Known
Viscosity (cps) at 20°C About 100 - 500

Oxidising properties Not considered to have oxidising properties Explosive properties Not considered to have explosive properties

# 9.2 Other information

No other relevant information



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# 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  $<40\,^{\circ}$ C

#### 10.5 Incompatible Materials

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

#### 10.6 Hazardous decomposition products

Thermal decomposition can produce carbon, carbon monoxide, 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
 c. serious eye damage/irritation
 d. respiratory or skin sensitisation
 May cause slight irritation to skin, but not classified as irritant
 May cause slight irritation to eyes, but not classified as irritant
 None of the components considered to be potential sensitisers

e. germ cell mutagenicity
None of the components considered to be mutagenic
carcinogenicity
None of the components considered to be carginogenic

g. reproductive toxicity None of the components considered to be toxic for reproduction

h. STOT-single exposure
 i. STOT-repeated exposure : No specific organ toxicity
 j. aspiration hazard
 No specific organ toxicity
 Not an aspiration hazard

# 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 LD<sub>50</sub>

COD (mgO<sub>2</sub>/g ds) : About 350 BOD (mgO<sub>2</sub>/g ds) : About 300

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.



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# 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

Not Applicable Name

## 14.3 Transport and Hazard Class(es)

Not Applicable

## 14.4 Packing Group

Not Applicable

# 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



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# 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

Not Applicable Assessment

# 16. Other information

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

#### Disclaimer

The information in this SDS was obtained from sources which we believe to be reliable. Origin Amenity Solutions provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate handling of the product by properly trained and qualified personnel. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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