

SAFETY DATA SHEET
According to Regulation (EU) 830/2015

BIOGAS
CATALYST

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Revision 1
Issue Date: Jan 2021

Section 1. IDENTIFICATION OF THE SUBSTANCE /MIXTURE AND THE COMPANY/ UNDERTAKING

- 1.1. Product identifier** Biogas Catalyst
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Granular product containing microorganisms for use in biogas plants
- 1.3. Details of the supplier of the safety data sheet**
Fluid Science Limited
Unit 5 Pride Point
Ashcroft Road,
Knowsley Ind. Park
United Kingdom
Tel: +44 (0) 1244-837860
Sales@fluidscienceltd.com
- 1.4. Emergency telephone number**
Telephone +44 (0) 1244-837860 (8:30am-5.30pm GMT Monday to Friday)

Section 2. HAZARDS IDENTIFICATION

- 2.1. Classification of the substance or mixture**
Classification according to 1272/2008/EC
This material is not classified as hazardous according to Regulation 1272/2008/EC as amended on classification, labelling and packaging of substances and mixtures.
- 2.2. Label elements**
Labelling according to 1272/2008/EC
No Hazard Pictograms, Signal words, Hazard statements or Precautionary statements required.
- 2.3. Other hazards** May cause mechanical irritation of the eye. Repeated inhalation of large amounts of respirable dust may irritate lungs and airways.

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

- 3.1. Substances**
3.2. Mixtures

Hazardous ingredients and those declared according to Regulation (EC) No 648/2004

Does not contain ingredients classified as hazardous or requiring declaration
Substances with workplace exposure limits, not listed above

CAS: 1318-02-1 EINECS: 215-283-8 REACH: Exempt, see Section 16	Zeolites	>10%
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Section 4. FIRST AID MEASURES

4.1. Description of first aid measures

Eye Contact Rinse immediately with water holding the eyelids open.

Skin Contact Wash off with soap and water. No need for first aid is anticipated.

Inhalation Move the exposed person to fresh air.

Ingestion Rinse mouth thoroughly. No need for first aid is anticipated.

Seek medical attention if any symptoms persist.

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

May cause mechanical irritation of the eye. Repeated inhalation of large amounts of respirable dust may irritate lungs and airways.

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

No special treatment required

Section 5. FIRE FIGHTING MEASURES

5.1. Extinguishing media Use extinguishing media appropriate to the surrounding fire conditions

5.2. Special hazards arising from the substance or mixture

Product is predominantly an inert inorganic material so is not expected to create special hazards

5.3. Advice for firefighters Wear full protective clothing and suitable respiratory equipment when necessary

Section 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

No special protective clothing required.

6.2. Environmental precautions

Do not allow large amounts (i.e. more than 20 kg) of product to enter drains undiluted (it may cause physical blockages). Do not allow spillages to enter an open water course or surface water. Prevent further spillage if safe.

6.3. Methods and material for containment and cleaning up

Small spillages (<20 kg) can be washed to drain with water (but not to one that leads to an open water course or surface water). For larger spillages, sweep up and transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water

6.4. Reference to other sections

See sections 8 and 13 for additional information

Section 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Wash thoroughly after handling. Adopt best Manual Handling considerations when handling, carrying and dispensing.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool dry, well-ventilated area. Keep containers tightly closed.
Store in correctly labelled containers

7.3. Specific end use(s)

No exposure scenario currently available

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Ingredient	Identifying numbers	Description	mg/m ³	Reference
Zeolites	CAS: 1318-02-1 EC: 215-283-8 REACH: Exempt, see Section 16	Value	0.15	MAK (DE)
		Short term exposure (interval x time) (1 x 8 hour)	18	

Engineering measures

Although WELs exist for ingredients in this product, the intended final use, i.e. dosing of small quantities of product, is not expected to generate significant dust. However, during processing if use patterns do generate dust, ensure adequate ventilation of the working area

Respiratory protection

If dust is generated, wear suitable half mask respirator with filter P2 (EN143)

Hand protection

No chemical resistance gloves required

Eye protection

None required

Protective equipment

No special protective clothing required.

Environmental measures

Do not allow large amounts of product to enter open water courses or surface water

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Fine grey granules
Odour	Slight
Odour threshold	Not determined
pH	(of 1% solution) 8 - 8.5
Melting point/freezing point	Not applicable predominantly a mineral ingredient
Initial boiling point and boiling range	Not applicable predominantly a mineral ingredient
Flash point	Not applicable predominantly a mineral ingredient
Evaporation rate	Contains no volatile material
Flammability (solid, gas)	Not a flammable solid
Upper/lower flammability or explosive limits	Not applicable, see above
Vapour pressure	No vapour expected
Vapour density	Not applicable, see above
Relative density	0.8-0.9
Solubilities	Partially soluble in water
Partition coefficient n-octanol/water	Not applicable predominantly a mineral ingredient
Autoignition temperature	Not applicable predominantly a mineral ingredient
Decomposition temperature	Not applicable predominantly a mineral ingredient
Viscosity	Not applicable, product is a granular solid
Explosive properties	No ingredients with explosive properties
Oxidising properties	No ingredients with oxidising properties
9.2. Other information	None available

Section 10. STABILITY AND REACTIVITY

10.1. Reactivity	May react vigorously with acids
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	Product is predominantly a mixture of an inert inorganic materials so is not expected to create special hazards
10.4. Conditions to avoid	Not determined
10.5. Incompatible materials	None known
10.6. Hazardous decomposition products	None known

Section 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

a) Acute toxicity

Contains no toxic ingredients and therefore no ATEs can be calculated.

The microorganisms in this product are all Group 1 (i.e. considered unlikely to cause human disease) according to EU Directive 2000/54/EC and related legislation.

b) Skin corrosion/irritation: Mixture not classified as corrosive to skin or causing skin irritation.

c) Serious eye damage/irritation: Mixture not classified as causing serious eye damage or irritation.

d) Respiratory or skin sensitisation: Does not contain ingredients classified as respiratory or skin sensitisers.

e) Germ cell mutagenicity: Does not contain ingredients that are known germ cell mutagens

f) Carcinogenicity: Does not contain ingredients that are known carcinogens

g) Reproductive toxicity: Does not contain ingredients that are known reproductive toxicants

h) STOT single exposure: Does not contain ingredients that are known to cause single target organ toxicity with single exposure

i) STOT repeated exposure: Does not contain ingredients that are known to cause single target organ toxicity with repeated exposure. However, repeated inhalation of large amounts of respirable dust may irritate or harm lungs and airways.

j) Aspiration hazard: Does not contain ingredients that are known to cause aspiration hazards

Section 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Does not contain ingredients that are toxic or harmful to the aquatic environment, so no classification of mixture is required for acute or chronic effects

12.2. Persistence and degradability

Product is predominantly an inert inorganic material and given the nature of the ingredients and their concentration in the mixture, no issues with persistence or degradability are expected.

12.3. Bioaccumulative potential

Given the classification and environmental behavior information on the ingredients and their concentration in the mixture, product is not expected to bioaccumulate

12.4. Mobility in soil

Product is largely insoluble and is not expected to be retained in soil to any significant extent

12.5. Results of PBT and vPvB assessment

Not anticipated to be PBT or vPvB

12.6. Other adverse effects

None known

Section 13. DISPOSAL CONSIDERATIONS

- 13.1. Waste treatment methods** Small quantities of product (up to 20kg on any one occasion) can be disposed of to drain (but not one that leads to an open water course or surface water) with a 10 times dilution with water. Small quantities of product (<20kg) can also be disposed of with normal refuse.

Section 14. TRANSPORT INFORMATION

- 14.1. UN number** Not regulated
14.2. UN proper shipping name Not regulated
14.3. Transport hazard class(es) Not regulated
14.4. Packing group Not regulated
14.5. Environmental hazards Not applicable
14.6. Special precautions for user None required
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
 Not applicable

Section 15. REGULATORY INFORMATION

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture** No known regulations or restrictions exist in EU Member states

15.2. Chemical safety assessment

No chemical safety assessment or exposure scenarios are provided as there is no obligation under REACH to prepare an exposure scenario for a mixture. In addition, the formulation is NOT classified for the specified hazard classes, categories or properties according to Article 14 (4) of REACH.

Section 16. ADDITIONAL INFORMATION

- Revision** This SDS has been prepared according to Regulation (EC) No 830/2015.
- Notes on REACH** We understand that natural zeolites of the type used in this product are exempt from registration under REACH according to Annex V “Exemptions from the Obligation to Register in Accordance with Article 2(7)(b)”. Paragraph 7 describes the following exempt materials “The following substances which occur in nature, if they are not chemically modified: minerals...”.

Note also that we are a “downstream user” of all raw materials within the formula as defined by REACH and are thus dependent on information on REACH status provided by suppliers.
- References** Annex II Annex II of (EU) No 453/2010 <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2010:133:0001:0043:en:PDF>

Article 14(4) and Paragraph 7 of Annex V of REACH [Regulation (EC) No 1907/2006 of the European Parliament and of the Council] <https://eur-lex.europa.eu/legal-content/en/TXT/PDF/?uri=CELEX:02006R1907-20180301&from=EN>
- Method used to classify:** Mixture has been classified by reference to information on ingredients

PBM

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Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any other process.