

Safety Data Sheet according to the Regulation EC No. 2015/830

Version No: 1.0	Date of issue: 26.11.2019	Revision No: --	Replaces version No: --
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier:

Substance name: Cellulase
CAS: 9012-54-8
Registration number: 01-2119949289-21-0009
Trade name: Cellulase

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

Relevant identified uses:

- as aid substance at desulphurisation biogas.

Uses advised against:

None known, do not use otherwise than listed.

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

Distributor:

BiogasGT s.r.o.
Mudroňová 26
811 01, Bratislava
tel.: +421 918 950 066

e-mail address of the person responsible for the SDS: erik.rakicky@biogasgt.sk

1.4. Emergency telephone number:

International Toxicological Information Centre,
Department of Occupational Medicine and Toxicology
Tel.: 02/5477 4166 fax: 02/5477 4605 e-mail: ntic@ntic.sk

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture:

Substance is classified as dangerous according to the Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Sensitisation — Respiratory, hazard category 1

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.2. Label elements:



Danger

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

P261 Avoid breathing dust/spray.

P284 In case of inadequate ventilation wear respiratory protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P501 Dispose of contents/container in accordance with the valid regulation.

2.3. Other hazards:

The substance does not meet the criteria for PBT and vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances:

CAS	EC	Registration number	Classification	Content (%)
cellulase				
9012-54-8	232-734-4	01-2119949289-21-0009	Resp. Sens. 1 H334 GHS08 Dgr	--

3.2. Mixtures:

Contains no hazardous mixtures.

Notes: *Full text H - phrases and R-phrases is referred to in point 16.

SECTION 4: First aid measures

4.1. Description of first aid measures:

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After skin contact: Wash affected skin with plenty of water.

After eyes contact: Rinse eyes with plenty of water.

After ingestion: Rinse mouth and throat with water. Drink more water. Get medical attention if irritation occurs.

After inhalation: Stop the exposure. If symptoms of irritation or sensitization (shortness of breath, wheezing or severe cough) occur, seek medical attention.

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

Information is not available.

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

Information is not available.

SECTION 5: Firefighting measures

5.1. Extinguishing media:

Suitable extinguishing media:

Water, extinguishing foam.

Unsuitable extinguishing media:

None known.

5.2. Special hazards arising from the substance or mixture:

None known.

5.3. Advice for firefighters:

No special measures are required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Use suitable personal protective equipment.

6.2. Environmental precautions:

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up:

Remove released product immediately. Avoid dust formation. Collect mechanically, using a vacuum cleaner with a high-efficiency filter. Rinse the residue carefully into the gutters with plenty of water. Avoid splashing and washing with high pressure water (avoid aerosol formation). Ensure adequate ventilation. Wash contaminated clothing.

6.4. Reference to other sections:

For more information on protective equipment see section 8.

For more information on the disposal of substance, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling:

Avoid dust formation. Avoid splashing and high pressure washing. Ensure adequate ventilation of work areas.

7.2. Conditions for safe storage, including any incompatibilities:

Keep containers in a cool, dry place.

7.3. Specific end use(s):

See point 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters:

Indicative occupational exposure limit values (IOELVs) for the protection of workers from chemical risks according to the Directive 98/24/EC. No limits established for this product and its components.

8.2. Exposure controls:

When handling this product observe the general principles of safe handling with chemicals and hygiene.

a) Eye/face protection:

Safety goggles or face shield.

b) Skin protection:

I. Hand protection: Impervious gloves (e.g.: latex).

II. Other: Work overalls or other normal work clothes.

c) Respiratory protection:

Respirator approved for this type of dust and potential airborne concentrations, such as full-face mask.

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d) Thermal hazards:

Information is not available.

8.3. Environmental exposure controls:

Avoid leakage of product into environmental compartments.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

appearance:	solid
colour:	brown-yellow
odour:	slight odour
odour threshold:	Information is not available.
pH:	4.8
melting point/freezing point:	Information is not available.
initial boiling point and boiling range:	Information is not available.
flash point:	Information is not available.
evaporation rate:	Information is not available.
flammability (solid, gas):	Information is not available.
upper/lower flammability or explosive limits:	Information is not available.
vapour pressure:	Information is not available.
vapour density:	Information is not available.
relative density:	1.37 at 20°C*
solubility(ies):	in water: 100 g/l at 25°C*
partition coefficient: n-octanol/water:	Log Kow (LogPow): -1.3 at 20°C
auto-ignition temperature:	Information is not available.
decomposition temperature:	Information is not available.
viscosity:	Information is not available.
explosive properties:	not determined
oxidising properties:	Information is not available.

9.2. Other information:

No other information available.

* **source:** ECHA database, registered chemicals.

SECTION 10: Stability and reactivity

10.1. Reactivity:

The product under normal condition of use and store is not reactive.

10.2. Chemical stability:

The product under normal condition of use and store is stable.

10.3. Possibility of hazardous reactions:

No known dangerous reactions.

10.4. Conditions to avoid:

Exposure to air humidity, elevated temperatures, open flame and ignition sources.

10.5. Incompatible materials:

Oxidizing agents, strong acids and alkali.

10.6. Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

a) acute toxicity:

Oral:

rat (*Wistar*), male/female; oral: gavage; method OECD 401:

LD₅₀: > 2,880 mg/kg

Inhalation:

rat (*Sprague-Dawley*), male/female; inhalation aerosol; method OECD 403:

LC₅₀: > 4.86 mg/l air (4 h)

LC₅₀: > 4.44 mg/l air (4 h)

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source: ECHA database, registered chemicals.

b) skin corrosion/irritation:

Based on available data, the classification criteria are not met.

c) serious eye damage/irritation:

Based on available data, the classification criteria are not met.

d) respiratory or skin sensitisation:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

e) germ cell mutagenicity:

Based on available data, the classification criteria are not met.

f) carcinogenicity:

Based on available data, the classification criteria are not met.

g) reproductive toxicity:

Based on available data, the classification criteria are not met.

h) STOT-single exposure:

Based on available data, the classification criteria are not met.

i) STOT-repeated exposure:

Based on available data, the classification criteria are not met.

j) aspiration hazard:

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity:

Short-term toxicity to fish:

Oncorhynchus mykiss; OECD Guideline 203:

LC₅₀ (96 h): > 52.1 mg/L

NOEC (96 h): 23.7 mg/L

Short-term toxicity to aquatic invertebrates:

Daphnia magna; OECD Guideline 202:

NOEC (48 h): ≥ 52.1 mg/l

EC₅₀ (48 h): > 52.1mg/L

source: ECHA database, registered chemicals.

12.2. Persistence and degradability:

The product is readily biodegradable.

12.3. Bioaccumulative potential:

Information is not available.

12.4. Mobility in soil:

Information is not available.

12.5. Results of PBT and vPvB assessment:

Substance does not meet the criteria for PBT and vPvB.

12.6. Other adverse effects:

No other adverse effects are known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods:

No special method of disposal of the product is required. Dispose of in an authorized facility in accordance with applicable legislation.

In case of leakage, carefully collect and dissolve in water before disposal.

If the product and its packaging become waste, the waste producer is obliged to assign a waste code according to the applicable Waste Catalog.

Clean empty containers thoroughly.

Recommended cleaning agents: Water, if necessary, add cleaning agent.

SECTION 14: Transport information

The product is not subject to transport of dangerous goods within the meaning of ADR/RID.

14.1. UN number: unassigned

14.2. UN proper shipping name: unassigned

name:

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14.3. Transport hazard class(es):	unassigned
14.4. Packing group:	unassigned
14.5. Environmental hazards:	Product is not classified as hazardous to the environment according to ADR/RID Code.
14.6. Special precautions for user:	No special transport measures are required. Transport the product in a cool, dry place and keep containers closed. Before loading, make sure that the cargo area of the car is clean and free of contamination.
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code:	Information is not available,

SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and as amended;
Regulation (EC) No 1272/2008 of the European Parliament and of the Council 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 and as amended;
Commission Regulation (EU) 2015/830 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH);
Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work and as amended;
Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing certain Directives;
Commission decision replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste.

15.2. Chemical safety assessment:

The chemical safety assessment need not have been carried out within the meaning of Article 14 (1).

SECTION 16: Other information

16.1. Used information sources:

Safety Data Sheet from the supplier.

ECHA database, registered chemicals:

<https://echa.europa.eu/sk/registration-dossier/-/registered-dossier/14330/1>

16.2. Instructions for the training:

Instruction in work with product shall be included into the educational system about the safety work (initial training, training at the workplace, repeated training) according to concrete conditions at the workplace.

16.3. List of relevant H-phrases:

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

16.4. Changes made in the revision:

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16.5. Other information:

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