

(according to Regulation (EC) No. 1907/2006 and Regulation (EC) No. 2015/830)

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1 SECTION. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTALKING

1.1 Product identifiers.

1.1.1 Product name BACTOFORCE

1.1.2 Product ID 202020100

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

1.2.1 Recommended use: Bactoforce is a liquid biological soil improvement product.

1.3 Details of the supplier of the safety data sheet.

1.3.1 Company: Bioenergy LT

1.3.2 Address: Staniūnų g. 83, Panevėžys 36151, Lithuania

1.3.3 Phone number: +370 674 46174 (working hours: I–V 8:00 – 17:00 h.)

1.3.4 E-mail address: info@bioenergy.lt

1.4 Emergency telephone number

1.4.1 Emergency Phone +370 5 236 20 52 or +370 687 53378

2 SECTION. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification in accordance with Regulation (EU) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended. Not classified, the classification criteria are not met.

2.2 Label elements

- 2.2.1 Labelling in accordance with Regulation (EU) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.
- 2.2.1.1 Hazard label for supply/use required.



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2.2.2 Hazard statements

EUH401 To avoid risks to human health and the environment, comply with the

instructions for use.

2.2.3 Precautionary statements

P501 Dispose of contents/container to a licensed hazardous waste disposal contractor or

collection site, except for triple rinsed empty containers which can be disposed of

as non-hazardous waste.

2.3 Other hazards

2.3.1 Micro-organisms may have the potential to provoke sensitizing reactions.

3 SECTION. COM POSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

3.1.1 Chemical nature Bacillus mojavensis MVY-007: $> 1.2 \times 10^{12}$ CFU/I

3.1.2 Hazardous components Hazard statements according to Regulation (EU) No. 1272/2008. Bacillus

mojavensis MVY-007 Not classified.

3.1.3 Further information For the full text of the H-Statements mentioned in this Section, see Section 16.

4 SECTION. FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 Inhalation Remove to fresh air. Keep the popular warm and at ease. If the symptom persists

remains, invite the patient.

4.1.2 Skin contact Wash skin with plenty of soap and water.



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4.1.3 Eye contact Wash immediately with plenty of water for at least 15 minutes. If any,

remove contact lenses after the first 5 minutes of washing. Then continue rinsing

the eyes. If irritation persists, call a physician.

4.1.4 Ingestion Do not induce vomiting. Call a physician or doctor immediately

poison information office. Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

4.2.1 Symptoms No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treatment needed

4.3.1 Treatment Treat symptomatically. There is no specific antidote.

5 SECTION. FIREFIGHTING MEASURES

5.1 Extinguishing media

5.1.1 Suitable Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

5.1.2 Unsuitable High volume water jet

5.2 Special hazards arising

from the substance or Dangerous gases are evolved in the event of a fire.

mixture

5.3 Advice for firefighters

5.3.1 Special protective equipment In the event of fire and/or explosion do not breathe fumes. In the event

for firefighters of fire, wear self-contained breathing apparatus.

5.3.2 Further information Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to

enter drains or water courses.

6 SECTION. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures



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6.1.1 Precautions

Avoid contact with spilled product or contaminated surfaces. Ensure

adequate ventilation. Use personal protective equipment.

6.2 **Environmental** precautions

Prevent entry into surface and ground water, sewage. Do not contaminate the surface or groundwater for the treatment of equipment, waste management, as well as the water with which the equipment was washed. Use the product as directed on the label.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Absorb with inert absorbent material (eg sand, silica gel,

> universal binder, arbolite). Collect and dispose of the product in a properly marked, tightly closed package. Thoroughly clean contaminated floors and objects, comply with environmental requirements. Clean with disinfectants.

Use personal protective equipment. Additional advice

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See section 13 for waste disposal information.

SECTION. HANDLING AND STORAGE

Precautions for safe handling

7.1.1 No special precautions are required when handling unopened product packages; Advice on safe handling

No special precautions are required.

follow the requirements of the instructions for use.

7.1.2 Advice on protection

against fire and explosion

Store the product according to point 7.3.2.

7.1.3 Avoid contact with skin, eyes and clothing. Store work clothes separately. Wash Hygiene measures

> hands before breaks and immediately after use. Wash thoroughly with soap and water after work. Take off immediately all contaminated clothing and clean it for

future use. Clothes that are not cleaned must be destroyed (burned).

7.2 Conditions for safe storage, including any incompatibilities

7.2.1 Requirements for storage

areas and containers Store in places accessible only to authorized persons. Store in the original package

for containers and containers. Keep container tightly closed in a cool, well-

ventilated place. Keep away from direct sunlight. Protect from frost.



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7.2.2 Advice on common storage Keep away from food, drink and animal feedingstuffs.

7.2.3 Storage stability Storage temperature from +5 ° C to +30 ° C

7.2.4 Suitable materials HDPE (high density polyethylene)

7.3 Specific end use (s) Refer to product label or instructions for use

8 SECTION. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Ingredients Bacillus mojavensis MVY-007

8.2 Exposure controls

8.2.1 Respiratory protection Respiratory protection must be used for short-term activities to prevent

residual risks after all available and practicable measures to reduce side effects have been taken (eg partitions and / or local exhaust ventilation). The respirator manufacturer's instructions for use and maintenance must always be followed. Use respiratory protection with particle filter (protection level 20) according to

European standard EN149FFP3 or EN140P3 or equivalent.

8.2.2 Hand protection Please follow the instructions for penetration and penetration time, which

provided by glove supplier. Also take into account the specific local conditions in which the product is used, the risk of cuts, scratches, duration of contact. Wash gloves when soiled. Destroy if the inside becomes dirty, torn or it is not possible to clean the surface. Wash your hands often and always wash before eating, drinking, smoking or using the toilet.

Material Nitrile nitrile rubber Penetration rate> 480 min.

Glove thickness> 0.4 mm

Directive Protective gloves in accordance with EN 374.

8.2.3 Eye protection Wear safety goggles (according to EN166,

field of use = 5 or equivalent).

8.2.4 Skin and body protection Wear standard protective clothing of category 3, type 5. Wear two

layers of clothing where possible. A polyester / cotton or cotton suit should be worn under a chemical resistant suit and should often be professionally washed. If there

is a higher risk of using a higher level of protection clothing.

8.2.5 General protective measures

The hazards are not known if the product is used in accordance with the label requirements. Users must follow these recommendations. Wash hands thoroughly



9.1.1

Appearance

SAFETY DATA SHEET

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with soap and water after handling the product and before eating, drinking, chewing gum, smoking, using the toilet or cosmetics. Do not allow children or pets to enter the treated area until the solution has dried.

9 SECTION. PHYSICAL AND CHEMICAL PROPERTIES

Liquid

9.1 Information on basic physical and chemical properties

0.1.2	Colon	Dark brown / black
9.1.2	Color	Dark brown / black
9.1.3	Odor	Sweet, earthy
9.1.4	Odor threshold	No data available
9.1.5	pH	7.5
9.1.6	Boiling point	100 ° C
9.1.7	Flash point	$>$ 100 $^{\circ}$ C No flash point - setting to boiling point.
9.1.8	Auto-ignition	475 ° C temperature
9.1.9	Evaporation rate	No data available
9.1.10	Density	Approximately 1.09 g / cm ³
9.1.11	Water solubility	Dispersible
9.1.12	Viscosity	0.6 mPas
9.1.13	Surface tension	No data available
9.1.14	Impact sensitivity	Insensitive to shocks.
9.1.15	Oxidizing properties	Does not oxidize.
9.1.16	Explosive properties	Non-explosive 92/69 / EEC, A.14 / OECD 113
9.1.17	Melting / freezing	<0 ° C temperature



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9.1.18 Upper (lower) flammability

limit or explosiveness

No data available

limit values

9.1.19 Vapor pressure

No data available

9.1.20 Relative density

No data available

9.1.21 Decomposition temperature

No data available

9.1.22 Explosive Properties

No data available

9.1.23 Partition coefficient

No data available

9.1.24 Vapor density

No data available

9.2 Other information

9.2.1 Other safety-related physicochemical properties are unknown.

10 SECTION. STABILITY AND REACTIVITY

10.1 Reactivity

10.1.1 Thermal decomposition

Stable under normal conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known if stored and handled as prescribed / indicated.

10.4 Conditions to avoid

Freezing

Higher than + 30 ° C and direct sunlight.

10.5 Incompatible materials

Store only in the original package.

10.6 Hazardous decomposition products

Under normal conditions of use, no decomposition products are formed.



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11 SECTION. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Acute toxicity No data available

11.1.2 Skin corrosion and No data available and / or irritation

11.1.3 High harmfulness No data available eyes and / or eye irritation

11.1.4 Respiratory or skin No data available sensitization

- 11.1.5 Specific target organ toxicity (STOT) single exposure assessment *Bacillus mojavensis* MVY-007: Based on available data, the classification criteria are not met.
- 11.1.6 Specific target organ toxicity (STOT) repeated exposure assessment *Bacillus mojavensis* MVY-007: Based on available data, the classification criteria are not met.
- 11.1.7 Mutagenicity assessment

Bacillus mojavensis MVY-007: Test for micro-organisms optional.

- 11.1.8 Carcinogenicity assessment *Bacillus mojavensis* MVY-007: Test for micro-organisms optional.
- 11.1.9 Assessment of reproductive toxicity

 Bacillus mojavensis MVY-007: Test for micro-organisms optional.
- 11.1.10 Aspiration hazard

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

12 SECTION. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Durability and legibility

No data available



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12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

12.6.1 Additional ecological information

No data available

13 SECTION. WASTE MANAGEMENT

13.1 Waste management methods

13.1.1 Product In accordance with current legislation and, if necessary, after consultation with waste disposal facility operator and / or responsible authority, the product may be

disposed of in a landfill, disposed of in an incineration plant or used as a secondary

raw material.

13.1.2 Contaminated packaging Incompletely cleaned packaging must be washed and recycled as a secondary raw

material.

13.1.3 Waste key for the unused **02 01 08*** agrochemical waste containing hazardous substances.

product

14 SECTION. TRANSPORT INFORMATION

 $According to ADN/ADR/UK \ 'Carriage' \ Regulations/RID/IMDG/IATA \ not classified \ as \ dangerous \ goods.$

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

14.1 – **14.5** Not applicable.

14.6 Special precautions for user



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14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No transport in bulk according to the IBC Code.

15 SECTION. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture
- 15.1.1 Appendix C to the Convention concerning International Carriage by Rail (COTIF) Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)
- 15.1.2 Concerning the classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548 / EEB and 1999/45 / EB and amending Regulation (EU) No 1907/2006. 1907/2006

15.2 Chemical Safety Assessment

A chemical safety assessment is not required for this substance.

15.3 SECTION 16: OTHER INFORMATION

Text of the hazard statements mentioned in Section 3

Abbreviations and acronyms

ADN European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways

ADR European Agreement concerning the International Carriage of Dangerous Goods by

Road

ATE Acute toxicity estimates

CAS-No. Chemical Abstracts Service number

Conc. Concentration

EC-No. European Community number

ECx Effective concentration x%

EINECS European Inventory of Existing Commercial Substances



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ELINCS European List of Notified Chemical Substances

EN European Standard

EU European Union

IATA International Air Transport Association

IBC International Code for the Construction and Equipment of Ships Carrying

Dangerous Chemicals in Bulk (IBC Code)

ICx Inhibitory concentration x%

IMDG International Maritime Dangerous Goods

LCx Lethal concentration x%

LDx Lethal dose x%

LOEC / LOEL Lowest observed effect concentration/level

MARPOL: International Convention for the Prevention of Pollution from Ships.

N.O.S. Not otherwise specified

NOEC / NOEL No observed effect concentration/level

OECD Organization for Economic Co-operation and Development

RID Rules concerning the International Carriage of Dangerous Goods by Rail

TWA Time weighted average

UN United Nations

WHO World Health Organization

The information in the safety data sheet shall be in accordance with Regulation (EU) No. 1907/2006. Regulation (EU) No 1907/2006 and Regulation (EU) No Amending Regulation (EU) No 2015/830 1907/2006 (and subsequent amendments). This safety data sheet supplements the product instructions for use but does not replace them. The information is based on our knowledge of the product at the time of writing. Consumers are warned of the potential dangers of using the products for purposes other than those for which they were intended. The required information is provided in accordance with current EEC legislation. Recipients are kindly requested to comply with all relevant national legislation.

Reason for revision: Revised and updated for general editorial purposes.