

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

VERMAKTIV STIMUL

Creation date	19th February 2015	Version	2.0
Revision date	16th September 2020		

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier**
Substance / mixture
VERMAKTIV STIMUL
mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Liquid auxiliary herbal preparation, acidic alcoholic - aqueous extract of vermicompost. It supports rooting, growth, inflorescence and the amount of storage substances, increases the resistance of plants.
Advantages: Biological stimulation of the immune system and growth of the root system and green areas of plants, increased quality and yield of the crops, suitable for use in organic farming. The product is diluted according to the instructions before use.
- Mixture uses advised against
The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**
- Distributor**
Name or trade name
WoBC s.r.o.
Address
K Ryšance 679/3, Praha 4 – Braník, 147 00
Czech Republic
Identification number (CRN)
26469669
Phone
+420 724 270 801
- Manufacturer**
Name or trade name
Enzymix s.r.o.
Address
Frindova 612/24, Krásná Lípa, 407 46
Czech Republic
Phone
+420 607 911 542
E-mail
enzymix@enzymix.eu
Web address
www.enzymix.eu, www.vermaktiv.cz
- Competent person responsible for the safety data sheet**
Name
Jindřich Vrbenský
E-mail
J.Vrbensky@email.cz
- 1.4. Emergency telephone number**
National Health Service (NHS) 111
National poisoning information centre Scotland, NHS 24: 111 112

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Skin Irrit. 2, H315
Eye Irrit. 2, H319

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse physico-chemical effects

They are not classified.

Most serious adverse effects on human health and the environment

Causes skin irritation. Causes serious eye irritation.

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

VERMAKTIV STIMUL

Creation date	19th February 2015	Version	2.0
Revision date	16th September 2020		

2.2. Label elements

Hazard pictogram



Signal word

Warning

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements

P102 Keep out of reach of children.
P264 Wash hands and exposed parts of the body thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

Supplemental information

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards

Registration decision number: 2983. Mixture does not contain any substance meeting the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture. Auxiliary herbal preparation. Alcoholic aqueous solution of enzymes (Lipase, Protease, Amylase, Hemicellulase), also contains amino acids, cytokinins, auxins and other substances such as aminoacetic acid and trace elements. The product is diluted according to the instructions on the label.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

none

SECTION 4: First aid measures

4.1. Description of first aid measures

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. In all cases keep the victim calm and warm. When giving first aid, be mindful of your own safety. The affected person is not breathing: artificial respiration is required. Cardiac arrest: it is necessary to start an indirect heart massage. Unconsciousness: the victim must be stored and transported in a stabilized form on his side.

If inhaled

It is unlikely, that if you have symptoms, follow the general guidelines below. Move victim to fresh air. Change the victim if the product has been affected by clothing. Protect the person against growing cold. Seek medical attention.

If on skin

Take off contaminated clothing. Immediately flush affected skin areas with plenty of lukewarm water. If there is no skin injury, it is advisable to use soap, soap solution or shampoo.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

DO NOT INDUCE VOMITING! Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

VERMAKTIV STIMUL

Creation date	19th February 2015	Version	2.0
Revision date	16th September 2020		

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

If inhaled

Not likely. May cause respiratory irritation.

If on skin

Causes skin irritation. In case of allergy, it may cause skin irritation and redness.

If in eyes

Causes serious eye irritation.

If swallowed

Exceptionally, in sensitive individuals, gastrointestinal irritation.

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

First Aid, decontamination, treatment of symptoms.

More information

None.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The mixture is not flammable. Choose extinguishing media according to the nature of the fire and its surroundings.

Unsuitable extinguishing media

None.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water. If possible, remove material from fire area. Close the endangered area and prevent entry by unauthorized persons.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes. Ventilate enclosed spaces. Mark the place of leakage. Keep unauthorized persons out of the affected area. Inform the local emergency center (police, fire brigade) about the accident. Prevent liquid from leaking by closing or sealing the leak.

6.2. Environmental precautions

Avoid release to the environment, waterways, sewers or soil. If the product enters water, sewers or soil, inform the relevant environmental authorities.

6.3. Methods and material for containment and cleaning up

Large Spill: Drain product. Small Spill: Absorb with suitable absorbent material, for example Vapex, collect in tightly closed containers and dispose of according to section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

VERMAKTIV STIMUL

Creation date 19th February 2015
Revision date 16th September 2020 Version 2.0

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Drinking, eating and smoking are not allowed at work and personal hygiene rules must be observed. Workplaces must be kept clean and escape routes must be passable. Only substances that are necessary for the work may be prepared at the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Store in a clean, dry, well-ventilated place. Store in the original packaging. Unsuitable materials for containers and packaging: non-alloy steel, galvanized surfaces. Suitable materials for containers and packaging: rubber, glass, ceramics, polyethylene, polypropylene, glass laminate. Store away from food, drink and animal feed. Isolate from strong oxidizing agents.

Content according to customer requirements

The specific requirements or rules relating to the substance/mixture

Measures for protection against fire and explosion: Warehouses must meet the requirements of fire safety of buildings and electrical equipment must comply with applicable regulations.

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains no substances for which occupational exposure limits are set.

8.2. Exposure controls

Provide workplace ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Where there is a possibility of workers being affected, it is advisable to set up an eyewash fountain and a safety shower (minimum suitable water drain) in the work area to provide first aid.

Eye/face protection

Tightly fitting safety goggles / face shield complying with the EN 166 standard.

Skin protection

Hand protection: Protective gloves resistant to the product, e.g. rubber, penetration time: > 480 minutes, complying with EN 374. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer.

Other protection: Protective work clothing and footwear. Contaminated skin should be washed thoroughly. Contaminated clothing must be washed again before reuse.

Respiratory protection

Not necessary if the workplace is well ventilated.

Thermal hazard

The supplier does not state any.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Observe the handling and storage conditions, in particular secure the areas against leaks into watercourses, soil and sewers.

More information

They are not available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	liquid
Physical state	gas at 20°C
color	brown
Odour	specific
Odour threshold	data not available
pH	5-6 (undiluted)
Melting point/freezing point	-1 °C
Initial boiling point and boiling range	data not available
Flash point	data not available
Evaporation rate	data not available

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

VERMAKTIV STIMUL

Creation date	19th February 2015	Version	2.0
Revision date	16th September 2020		
Flammability (solid, gas)		non-flammable	
Upper/lower flammability or explosive limits			
flammability limits		data not available	
explosive limits		data not available	
Vapour pressure		data not available	
Vapour density		data not available	
Relative density		data not available	
Solubility(ies)			
solubility in water		soluble indefinitely	
solubility in fats		not available	
Partition coefficient: n-octanol/water		data not available	
Auto-ignition temperature		data not available	
Decomposition temperature		data not available	
Viscosity		data not available	
Explosive properties		non-explosive	
Oxidising properties		does not	
9.2. Other information			
Density		1.210 – 1.420 g/cm ³ at 20°C	
ignition temperature		data not available	

SECTION 10: Stability and reactivity

10.1. Reactivity

Data not available.

10.2. Chemical stability

Under normal conditions, the mixture (20 ° C; 101.3 kPa) is chemically stable.

10.3. Possibility of hazardous reactions

When used in the standard way, there is not any dangerous reaction with other substances.

10.4. Conditions to avoid

High temperatures, contact with substances with a dangerous chemical reaction.

10.5. Incompatible materials

Isolate from strong oxidizing agents. Avoid the following substances: non-alloy steel, galvanized surfaces.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

VERMAKTIV STIMUL

Creation date	19th February 2015	Version	2.0
Revision date	16th September 2020		

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

The product is not classified as dangerous for the environment.

12.2. Persistence and degradability

Degradable product, it is a mixture of natural substances.

12.3. Bioaccumulative potential

Data not available.

12.4. Mobility in soil

Data not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Other adverse effects

Water hazard class: slightly hazardous for water.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

06 09 99 wastes not otherwise specified

16 03 03 inorganic wastes containing hazardous substances *

Packaging waste type code

15 01 02 plastic packaging

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number

Not subject to ADR

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

VERMAKTIV STIMUL

Creation date	19th February 2015	Version	2.0
Revision date	16th September 2020		

14.2. UN proper shipping name

not available

14.3. Transport hazard class(es)

not available

14.4. Packing group

not available

14.5. Environmental hazards

The product is not classified as dangerous for the environment.

14.6. Special precautions for user

Reference in the Sections 4 to 8.

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

Not applicable.

Additional information

They are not available.

SECTION 15: Regulatory information

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

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Environmental Protection Act 1990 as amended. Clean Air Act 1993 as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 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, as amended.

15.2. Chemical safety assessment

It has not been processed.

More information

They are not available.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H315 Causes skin irritation.
H319 Causes serious eye irritation.

Guidelines for safe handling used in the safety data sheet

P264 Wash hands and exposed parts of the body thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P337+P313 If eye irritation persists: Get medical advice/attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P102 Keep out of reach of children.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

A list of additional standard phrases used in the safety data sheet

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR European agreement concerning the international carriage of dangerous goods by road
BCF Bioconcentration Factor
CAS Chemical Abstracts Service
CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL Derived no-effect level

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

VERMAKTIV STIMUL

Creation date	19th February 2015	Version	2.0
Revision date	16th September 2020		

EC	Identification code for each substance listed in EINECS
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC ₅₀	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

Eye Irrit.	Eye irritation
Skin Irrit.	Skin irritation

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

None known. Follow the supplier's instructions.

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

Version 1: Update according to EC Regulation No. 1272/2008. Version 2: addition of classification and texts according to the supplier's documentation.

More information

Classification procedure - according to the supplier and his experience.

Statement

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

VERMAKTIV STIMUL

Creation date	19th February 2015	Version	2.0
Revision date	16th September 2020		

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.