

# Safety Data Sheet Velifer® Bioinsecticide/Miticide

Revision date: 2023/06/26 Page: 1/11
Version: 7.0 (30663712/SDS\_CPA\_US/EN)

# 1. Identification

# Product identifier used on the label

# **Velifer® Bioinsecticide/Miticide**

# Recommended use of the chemical and restriction on use

Recommended use\*: crop protection product, insecticide Unsuitable for use: Uses other than recommended

# Details of the supplier of the safety data sheet

Company:
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

# **Emergency telephone number**

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

#### Other means of identification

Substance number: 776854

Registration number: EPA Registration number: 71840-22

Synonyms: Beauvaria Bassiana

# 2. Hazards Identification

## According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

# Classification of the product

No need for classification according to GHS criteria for this product.

<sup>\*</sup> The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

# Velifer® Bioinsecticide/Miticide

Revision date: 2023/06/26 Page: 2/11 Version: 7.0 (30663712/SDS\_CPA\_US/EN)

## Label elements

The product does not require a hazard warning label in accordance with GHS criteria.

## Hazards not otherwise classified

Labeling of special preparations (GHS):

May produce an allergic reaction. Contains: BEAUVERIA BASSIANA PPRI5339 Micro-organisms may have the potential to provoke sensitising reactions.

# 3. Composition / Information on Ingredients

# According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Beauveria bassiana

CAS Number: 63428-82-0 Content (W/W): 8.0 % Synonym: No data available.

Sunflower oil

CAS Number: 8001-21-6 Content (W/W): < 90.0% Synonym: No data available.

# 4. First-Aid Measures

# **Description of first aid measures**

# General advice:

Remove contaminated clothing.

## If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

#### If on skin:

Wash thoroughly with soap and water

# If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

# If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

# Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

# Indication of any immediate medical attention and special treatment needed

# Velifer® Bioinsecticide/Miticide

Revision date: 2023/06/26 Page: 3/11 Version: 7.0 (30663712/SDS\_CPA\_US/EN)

Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions).

# 5. Fire-Fighting Measures

# **Extinguishing media**

Suitable extinguishing media: water spray, dry powder, foam, carbon dioxide

# Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, nitrogen oxides

The substances/groups of substances mentioned can be released in case of fire.

# Advice for fire-fighters

Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

#### **Further information:**

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

# 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

# **Environmental precautions**

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

# Methods and material for containment and cleaning up

Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

# 7. Handling and Storage

# Precautions for safe handling

RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect contents from the

# Velifer® Bioinsecticide/Miticide

Revision date: 2023/06/26 Page: 4/11 Version: 7.0 (30663712/SDS\_CPA\_US/EN)

effects of light. Protect against heat. Protect from air. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Avoid aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. The substance/product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

# Protection against fire and explosion:

Vapours may form ignitable mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

# Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight. Store protected against freezing. Keep container tightly closed.

Protect from temperatures below: 2 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 25 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

# 8. Exposure Controls/Personal Protection

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

## Components with occupational exposure limits

Sunflower oil	OSHA Z3:	TWA value 5 mg/m3 Respirable fraction;
	OSHA Z3:	TWA value 15 mg/m3 Total dust;
	OSHA Z3:	TWA value 15 millions of particles per cubic foot
		of air Respirable fraction;
	OSHA Z3:	TWA value 50 millions of particles per cubic foot
		of air Total dust ;
	ACGIH, US:	TWA value 10 mg/m3 Inhalable particles;
	ACGIH, US:	TWA value 3 mg/m3 Respirable particles;
	OSHA Z1:	PEL 15 mg/m3 Total dust ;
	OSHA Z1:	PEL 5 mg/m3 Respirable fraction;

# Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

#### Personal protective equipment

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

#### Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed.

# **Velifer® Bioinsecticide/Miticide**

Revision date: 2023/06/26 Page: 5/11 Version: 7.0 (30663712/SDS\_CPA\_US/EN)

# Hand protection:

Wear impermeable chemical resistant protective gloves.

# Eye protection:

Safety glasses with side-shields. Wear face shield if splashing hazard exists.

# **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

# General safety and hygiene measures:

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

# 9. Physical and Chemical Properties

Form: liquid

Odour: characteristic

Odour threshold: Not determined due to potential health hazard by inhalation.

Colour: yellow

pH value: The product has not been tested. Melting point: The product has not been tested.

Boiling point: > 350 °C
Flash point: > 288 °C
Flammability: not applicable

Lower explosion limit: As a result of our experience with this

product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with

the intended use.

Upper explosion limit: As a result of our experience with this

product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with

the intended use.

Autoignition: 405 °C

(DIN 51794)

The product has not been tested. The statement has been derived from the

properties of the individual

components.

Vapour pressure: approx. < 1 hPa

(20°C)

Information applies to the solvent.

Density: approx. 0.96 g/cm3

(20°C)

Vapour density: not applicable Partitioning coefficient n- not applicable

octanol/water (log Pow):

Thermal decomposition: No decomposition if stored and handled as

prescribed/indicated.

# Velifer® Bioinsecticide/Miticide

Revision date: 2023/06/26 Page: 6/11 Version: 7.0 (30663712/SDS\_CPA\_US/EN)

Viscosity, dynamic: approx. 60 mPa.s

(20°C)

Information applies to the solvent.

Solubility in water: emulsifiable Evaporation rate: emulsifiable not applicable

Other Information: If necessary, information on other physical and chemical

parameters is indicated in this section.

# 10. Stability and Reactivity

# Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties: not fire-propagating

# **Chemical stability**

The product is stable if stored and handled as prescribed/indicated.

# Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

#### Conditions to avoid

See SDS section 7 - Handling and storage.

# Incompatible materials

strong acids, strong bases, strong oxidizing agents

# **Hazardous decomposition products**

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

# 11. Toxicological information

# Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

# **Acute Toxicity/Effects**

# Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Oral

Type of value: LD50

Species: rat

# Velifer® Bioinsecticide/Miticide

Revision date: 2023/06/26 Page: 7/11
Version: 7.0 (30663712/SDS\_CPA\_US/EN)

Value: > 5,000 mg/kg No mortality was observed.

## <u>Inhalation</u>

Type of value: LC50 Species: rat (male/female) Value: > 3.09 mg/l Exposure time: 4 h No mortality was observed.

## **Dermal**

Type of value: LD50

Species: rat

Value: > 5,000 mg/kg No mortality was observed.

## Assessment other acute effects

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

The product has not been tested. The statement has been derived from the properties of the individual components.

# Irritation / corrosion

Assessment of irritating effects: Not irritating to the skin. Moderately irritating to the eyes.

# Skin

Species: rabbit
Result: non-irritant

# Eye

Species: rabbit

Result: Slightly irritating.

# Sensitization

Assessment of sensitization: No sensitizing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Sunflower oil

No data available.

-----

# **Chronic Toxicity/Effects**

# Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Sunflower oil

Assessment of repeated dose toxicity: Not classified, due to lack of data.

·

## Genetic toxicity

# Velifer® Bioinsecticide/Miticide

Revision date: 2023/06/26 Page: 8/11 Version: 7.0 (30663712/SDS\_CPA\_US/EN)

Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

# Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

# Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

## **Teratogenicity**

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

# Other Information

Misuse can be harmful to health.

# 12. Ecological Information

# **Toxicity**

Aquatic toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

## Toxicity to fish

Information on: Sunflower oil

LC50 (96 h) > 1,000 mg/l, Brachydanio rerio (other)

The details of the toxic effect relate to the nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

\_\_\_\_\_

# Aquatic invertebrates

Information on: Sunflower oil

EC50 (48 h) > 100 mg/l, Daphnia magna (other)

The details of the toxic effect relate to the nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

-----

# Aquatic plants

Information on: Sunflower oil EC50 > 100 mg/l, algae (other)

The details of the toxic effect relate to the nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

\_\_\_\_\_

# Persistence and degradability

# Velifer® Bioinsecticide/Miticide

Revision date: 2023/06/26 Page: 9/11 Version: 7.0 (30663712/SDS\_CPA\_US/EN)

# Assessment biodegradation and elimination (H2O)

The product has not been tested. The statement has been derived from the properties of the individual components.

# Assessment biodegradation and elimination (H2O)

Information on: Sunflower oil

Not readily biodegradable (by OECD criteria). Biodegradable.

-----

# **Bioaccumulative potential**

# Assessment bioaccumulation potential

The product has not been tested. The statement has been derived from the properties of the individual components.

# Mobility in soil

Assessment transport between environmental compartments

No data available.

## **Additional information**

Other ecotoxicological advice:

Do not discharge product into the environment without control.

# 13. Disposal considerations

# Waste disposal of substance:

Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### Container disposal:

Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

# 14. Transport Information

# Land transport

**USDOT** 

Not classified as a dangerous good under transport regulations

# Sea transport

**IMDG** 

Not classified as a dangerous good under transport regulations

# Velifer® Bioinsecticide/Miticide

Revision date: 2023/06/26 Page: 10/11 Version: 7.0 (30663712/SDS\_CPA\_US/EN)

Air transport

Not classified as a dangerous good under transport regulations

# 15. Regulatory Information

# **Federal Regulations**

# Registration status:

Crop Protection TSCA, US released / exempt

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

## **State regulations**

State RTKCAS NumberChemical namePA8001-21-6Sunflower oil

## Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

A risk assessment indicates CA Proposition 65 Safe Harbor criteria are not exceeded when the product is used for agricultural or residential purposes.

# Labeling requirements under FIFRA

This chemical is a pesticide product regulated by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

# CAUTION:

KEEP OUT OF REACH OF CHILDREN.

Hazards to humans and domestic animals.

Causes moderate eye irritation.

Avoid contact with eyes or clothing.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

# 16. Other Information

# SDS Prepared by:

BASF NA Product Regulations SDS Prepared on: 2023/06/26

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our

# Safety Data Sheet Velifer® Bioinsecticide/Miticide

Revision date: 2023/06/26 Page: 11/11
Version: 7.0 (30663712/SDS\_CPA\_US/EN)

operations on society and the environment during production, storage, transport, use and disposal of our products.

Velifer® Bioinsecticide/Miticide is a registered trademark of BASF Corporation or BASF SE IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK. **END OF DATA SHEET**