# AVEOTM EZ NEMATICIDE



# Safety Data Sheet - GHS

### 1. IDENTIFICATION: CHEMICAL PRODUCT AND COMPANY

**PRODUCT NAME**: AVEO™ EZ NEMATICIDE

**EPA REGISTRATION NUMBER:** 59639-220 **PRODUCT CODE:** 85000.935

**PRODUCT DESCRIPTION:** Biological Seed treatment - Nematicide

#### MANUFACTURER/DISTRIBUTOR

VALENT U.S.A. LLC P.O. Box 5075 4600 Norris Canyon Road San Ramon, CA 94583

#### **EMERGENCY TELEPHONE NUMBERS**

HEALTH EMERGENCY OR SPILL (24 hr): (800) 892-0099
TRANSPORTATION (24 hr.): CHEMTREC (800) 424-9300 or (202) 483-7616

#### PRODUCT INFORMATION

AGRICULTURAL PRODUCTS: (800) 682-5368

### 2. HAZARDS IDENTIFICATION

This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not the same as the FIFRA-required classifications on the product label. Certain sections of this SDS are superseded by federal law under EPA FIFRA for a registered pesticide. Please see Section 15, REGULATORY INFORMATION for an explanation.

Classification - (per U.S. OSHA 29 CFR 1910.1200 (Hazcom 2012))

Acute toxicity - Inhalation (Dusts/Mists)

Category 4

Label elements

**EMERGENCY OVERVIEW** 

### **WARNING**



Hazard statements Harmful if inhaled

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#### Precautionary statements

#### Prevention

Use only outdoors or in a well-ventilated area Avoid breathing dust/fume/gas/mist/vapors/spray

#### Response

Eyes None.

Skin None.

Inhalation IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion None.

FIRE None.

Spill None.

#### **Storage**

None

#### **Disposal**

None

### Hazards not otherwise classified (HNOC)

#### Other Information

<5% of the mixture consists of ingredient(s) of unknown toxicity

For information on Transportation requirements, see Section 14.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%	TRADE SECRET
Bacillus amyloliquefaciens strain PTA-4838	TRADE SECRET	16.5	*
Others	(Various CAS#s)	74	

<sup>\*</sup> The chemical name, CAS number and/or exact percentage have been withheld as a trade secret

Other ingredients, which may be maintained as trade secrets, are any substances other than an active ingredient contained in this product. Some of these may be hazardous, but their identities are withheld because they are considered trade secrets. The hazards associated with the other ingredients are addressed in this document. Specific information on other ingredients for the management of exposures, spills, or safety assessments can be obtained by a treating physician or nurse by calling (800) 892-0099 at any time.

#### FIRST AID MEASURES

#### **EMERGENCY NUMBER (800) 892-0099**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-892-0099 for emergency medical treatment information.

#### **EYE CONTACT:**

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

#### **SKIN CONTACT:**

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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#### **INGESTION:**

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by the poison control center or doctor. Do not give anything to an unconscious person.

#### **INHALATION:**

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

#### **NOTES TO PHYSICIAN:**

None

### FIRE FIGHTING MEASURES

Flash point °C Flash point °F

#### **NFPA RATING:**

Health: Flammability: 1 Reactivity: 0 Special: None

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using professional judgement. Values were not available in the guidelines or published evaluations prepared by the National Fire Protection Association, NFPA.

FIRE FIGHTING INSTRUCTIONS: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear.

### **ACCIDENTAL RELEASE MEASURES**

**VALENT EMERGENCY PHONE NUMBER: (800) 892-0099 CHEMTREC EMERGENCY PHONE NUMBER: (800) 424-9300 OBSERVE PRECAUTIONS IN SECTION 8: PERSONAL PROTECTION** 

Stop the source of the spill if safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water. For additional spill response information refer to the North American Emergency Response Guidebook.

UN/NA NUMBER: Not applicable **EMERGENCY RESPONSE GUIDEBOOK NO.:** Not applicable

Methods for cleaning up - In case of spill, soak it up immediately with suitable absorbent, such as sawdust or granular absorbent clay, and transfer collected materials to heavy-duty plastic drums and keep them for safe disposal. DO NOT WASH RESIDUES INTO DRAINS OR OTHER WATERWAYS.

### HANDLING AND STORAGE

#### END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

#### HANDLING:

Ventilate. Avoid breathing mist or vapor at concentrations greater than the exposure limits. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Do not eat, drink or smoke while working with product. Obey reasonable safety precautions and practice good housekeeping. For filling operations, respiratory protection may be recommended, particularly in enclosed areas. Wear personal protective equipment when handling this

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product. Remove PPE immediately after handling this product. Wash the outside of the gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### STORAGE:

Store in the original container in secure area. Keep container tightly closed and away from heat, sunlight, and sources of flame. Do not allow to freeze. Do not mix material in food or drink containers. Do not contaminate food. water, or feedstuffs. Keep out of reach of children and animals. Do not store at temperatures below 32 °F (0 °C). If the product is exposed to temperatures below 32 °F (0 °C), thaw at room temperature to 50 °F (10 °C) or warmer and shake gently to unify the product.

#### **EXPOSURE CONTROLS/PERSONAL PROTECTION** 8.

#### END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

Mixers, loaders, applicators and other handlers should refer to the product label before use for detailed information on personal protective equipment (PPE).

EYES & FACE: Do not get this material in your eyes. Eye contact can be avoided by wearing safety goggles or a face shield.

**RESPIRATORY PROTECTION:** Mixers/loaders and applicators must wear: a NIOSH approved particulate respirator, with any R or P filter with NIOSH approved number prefix TC-84A; or a NIOSH approved powered air purifying respirator with a HE filter with NIOSH approval number prefix TC-21C.

SKIN & HAND PROTECTION: Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing including long pants, long-sleeved shirt and shoes plus socks, and chemical-resistant gloves. Remove contaminated clothing. Wash before reuse.

ENGINEERING CONTROLS: Engineering controls, such as ventilation, should be provided which maintain concentrations as low as practicable. Where adequate general ventilation is unavailable, use process enclosure, local exhaust ventilation or other engineering controls to control airborne levels. When handlers use closed systems in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides[40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### **EXPOSURE LIMITS**

Chemical name	ACGIH Exposure Limits	OSHA Exposure Limits	Manufacturer's Exposure Limits
Bacillus amyloliquefaciens strain PTA-4838	None	None	None
Others	None	None	None

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Liquid

**Appearance** No information available Odor No information available No information available Color Brown Odor threshold

Values **PROPERTIES** Remarks • Method 7.30 25°C (1% w/v suspension) На

Melting point/freezing point No information available Boiling point/boiling range No information available Flash point No information available **Evaporation rate** No information available Flammability (solid, gas) No information available

Flammability Limits in Air

Upper flammability limits No information available

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Lower flammability limit No information available No information available Vapor pressure No information available Vapor density **Specific Gravity** No information available Water solubility No information available Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available **Viscosity** 393.83 cSt @20°C

143.67 cSt @40°C

**Explosive properties**No information available
Oxidizing properties
No information available

**Liquid Density** 1.205 g/ml (@20°C/20°C) Specific Gravity

Bulk density No information available

### 10. STABILITY AND REACTIVITY

#### Reactivity

This product is stable in normal handling and storing condition.

#### **Chemical stability**

Stable under normal conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

#### **Hazardous polymerization**

Hazardous polymerization does not occur.

#### **Conditions to avoid**

Keep away from open flames, hot surfaces and sources of ignition.

#### Incompatible materials

None known based on information supplied.

#### **Hazardous Decomposition Products**

None under normal use conditions.

### 11. TOXICOLOGICAL INFORMATION

#### **ACUTE TOXICITY:**

Oral Toxicity LD 50 (rats) >5000 mg/kg **EPA Tox Category** IV Dermal Toxicity LD 50 (rabbits) >5050 mg/kg **EPA Tox Category** IV Inhalation Toxicity LC 50 (rats) >2.13 mg/L (4 h) (4 h) **EPA Tox Category** IV Eye Irritation (rabbits) Minimally irritating **EPA Tox Category** IV Skin Irritation (rabbits) Non-irritating **EPA Tox Category** IV

Skin Sensitization (guinea pigs) Not available EPA Tox Category Not available

#### **CARCINOGEN CLASSIFICATION**

Chemical name	IARC Group 1 or 2	OSHA - Select Carcinogens	NTP Carcinogen List

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Bacillus amyloliquefaciens strain PTA-4838	Not listed	Not listed	Not listed
Others	Not listed	Not listed	Not listed

For a summary of the potential for adverse health effects from exposure to this product, refer to Section 2. For information regarding regulations pertaining to this product, refer to Section 15.

### 12. ECOLOGICAL INFORMATION

While no additional ecotoxicity effects have been determined for this mixture, it is recommended that this material be treated as hazardous material, and precautions be taken to ensure this material is not released into the environment. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark.

#### **DISPOSAL CONSIDERATIONS** 13.

#### END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.

**PRODUCT DISPOSAL:** To avoid waste, use all material in the container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**CONTAINER DISPOSAL:** Refer to pesticide label for proper container disposal instructions based on container type and size.

**DISPOSAL METHODS:** Check government regulations and local authorities for approved disposal of this material. Dispose of in accordance with applicable laws and regulations.

### 14. TRANSPORTATION INFORMATION

DOT (ground) SHIPPING NAME: Not regulated for domestic ground transport by U.S. DOT

**ICAO/IATA SHIPPING NAME:** Not regulated as Hazardous Materials/Dangerous Goods per IATA.

**IMDG SHIPPING NAME:** Not regulated as Hazardous Materials/Dangerous Goods per IMDG.

### 15. REGULATORY INFORMATION

#### EPA-FIFRA LABEL INFORMATION THAT DIFFERS FROM OSHA-GHS REQUIREMENTS:

Pesticide products in the U.S. are registered by the EPA under FIFRA and are subject to certain labeling requirements under federal pesticide law. These requirements may differ from the classification criteria and hazard information required by OSHA GHS for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the FIFRA pesticide label:

### **EPA FIFRA SIGNAL WORD: CAUTION**

- · Keep out of reach of children.
- · Hazards to humans & domestic animals
- · Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothina.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As

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soon as possible, wash thoroughly and change into clean clothing.

PESTICIDE REGULATIONS: All pesticides are governed under FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

U.S. FEDERAL REGULATIONS: Ingredients in this product are reviewed against an inclusive list of federal regulations. Therefore, the user should consult appropriate authorities. The federal regulations reviewed include: Clean Water Act, SARA, CERCLA, RCRA, DOT, TSCA and OSHA. If no components or information is listed in the space below this paragraph, then none of the regulations reviewed are applicable.

SARA (311, 312):

Immediate Health: Yes Chronic Health: No Fire: No Sudden Pressure: No Reactivity: No

**STATE REGULATIONS:** Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore, the user should consult state or local authorities. The state regulations reviewed include: California Proposition 65, California Directors List of Hazardous Substances, Massachusetts Right to Know, Michigan Critical Materials List, New Jersey Right to Know, Pennsylvania Right to Know, Rhode Island Right to Know and the Minnesota Hazardous Substance list, For Washington State Right to Know, see Section 8 for Exposure Limit information. For Louisiana Right to Know refer to SARA information listed under U.S. Regulations above. If no components or information is listed in the space below this paragraph, then none of the regulations reviewed are applicable.

For information regarding potential adverse health effects from exposure to this product, refer to Sections 2 and 11.

## 16. OTHER INFORMATION

Update the Manufacturer's address. **REASON FOR ISSUE:** 

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**RESPONSIBLE PERSON(S):** Valent U.S.A. LLC, Corporate EH&S, (925) 256-2803

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This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom").

The product label provides information specifically for product use in the ordinary course. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label.

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