

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Serata Fungicide

Version	Revision Date:	SDS Number:	Date of last issue: 01/21/2026
1.2	03/18/2026	11551266-00003	Date of first issue: 07/01/2025

SECTION 1. IDENTIFICATION

Product name : Serata Fungicide
Product code : UVP: DU00000152 Specification: 102D00000455 EPA Registration No:8033-138-101563

Manufacturer or supplier's details

Company name of supplier : Environmental Science U.S. LLC.
Address : 5000 Centregreen Way, Suite 400
Cary NC 27513
Telephone : 1-800-331-2867
Emergency telephone : +1 703-741-5970
E-mail address : uscontact@envu.com

Recommended use of the chemical and restrictions on use

Recommended use : Fungicide
Restrictions on use : For professional users only.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards for the product as supplied

Carcinogenicity : Category 2

Other hazards

None known.

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H351 Suspected of causing cancer.

Precautionary Statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves, protective clothing, eye protection and face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical attention.

Storage:

P405 Store locked up.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Serata Fungicide

Version 1.2 Revision Date: 03/18/2026 SDS Number: 11551266-00003 Date of last issue: 01/21/2026
Date of first issue: 07/01/2025

Disposal:

P501 Dispose of contents and container to an approved waste disposal plant.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)	Trade secret
tert-Butyl (6-[[[(Z)-(1-methyl-1H-5-tetrazol-yl)(phenyl)methylene]amino oxymethyl}-2-pyridyl]carbamate	500207-04-5*	20.28	-

* Indicates that the identifier is a CAS No.

SECTION 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.

If inhaled : If inhaled, remove to fresh air.
Get medical attention.

In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.
Remove contaminated clothing and shoes.
Get medical attention.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.

In case of eye contact : Flush eyes with water as a precaution.
Get medical attention if irritation develops and persists.

If swallowed : If swallowed, DO NOT induce vomiting.
Get medical attention.
Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed : Suspected of causing cancer.

Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Serata Fungicide

Version	Revision Date:	SDS Number:	Date of last issue: 01/21/2026
1.2	03/18/2026	11551266-00003	Date of first issue: 07/01/2025

Dry chemical

- | | | |
|--|---|---|
| Unsuitable extinguishing media | : | High volume water jet |
| Specific hazards during fire fighting | : | Exposure to combustion products may be a hazard to health. |
| Hazardous combustion products | : | Carbon oxides
Nitrogen oxides (NOx) |
| Specific extinguishing methods | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area. |
| Special protective equipment for fire-fighters | : | In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment.
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8). |
| Environmental precautions | : | Avoid release to the environment.
Prevent further leakage or spillage if safe to do so.
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained. |
| Methods and materials for containment and cleaning up | : | Sweep up or vacuum up spillage and collect in suitable container for disposal.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. |

SECTION 7. HANDLING AND STORAGE

- | | | |
|-------------------------|---|---|
| Technical measures | : | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. |
| Local/Total ventilation | : | Use only with adequate ventilation. |
| Advice on safe handling | : | Do not swallow.
Avoid contact with eyes.
Avoid prolonged or repeated contact with skin.
Handle in accordance with good industrial hygiene and safety |

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Serata Fungicide

Version	Revision Date:	SDS Number:	Date of last issue: 01/21/2026
1.2	03/18/2026	11551266-00003	Date of first issue: 07/01/2025

practice, based on the results of the workplace exposure assessment
Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage : Keep in properly labeled containers.
Store locked up.
Store in accordance with the particular national regulations.

Materials to avoid : Do not store with the following product types:
Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Ensure adequate ventilation, especially in confined areas.
Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Material : Chemical-resistant gloves

Remarks : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Eye protection : Wear the following personal protective equipment:
Safety glasses

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Serata Fungicide

Version	Revision Date:	SDS Number:	Date of last issue: 01/21/2026
1.2	03/18/2026	11551266-00003	Date of first issue: 07/01/2025

When using do not eat, drink or smoke.
Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	granules
Color	:	light brown
Odor	:	No data available
Odor Threshold	:	No data available
pH	:	5.7 Concentration: 1 % (as aqueous solution)
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Not classified as a flammability hazard
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapor pressure	:	Not applicable
Relative vapor density	:	Not applicable
Relative density	:	No data available
Density	:	No data available
Bulk density	:	0.6 - 0.67 g/cm ³
Solubility(ies)	:	
Water solubility	:	No data available
Partition coefficient: n-octanol/water	:	Not applicable
Autoignition temperature	:	Not applicable
Decomposition temperature	:	No data available
Viscosity	:	
Viscosity, kinematic	:	Not applicable

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Serata Fungicide

Version	Revision Date:	SDS Number:	Date of last issue: 01/21/2026
1.2	03/18/2026	11551266-00003	Date of first issue: 07/01/2025

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Particle characteristics
Particle size : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Can react with strong oxidizing agents.

Conditions to avoid : None known.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: 4,053 mg/kg
Method: Calculation method

Components:

tert-Butyl (6-[[[(Z)-(1-methyl-1H-5-tetrazolyl)(phenyl)methylene]aminooxymethyl]-2-pyridyl]carbamate:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OPPTS 870.1100
Remarks: The test was conducted according to guideline

Acute inhalation toxicity : LC50 (Rat): > 5.2 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OPPTS 870.1300
Remarks: The test was conducted according to guideline

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OPPTS 870.1200
Remarks: The test was conducted according to guideline

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Serata Fungicide

Version	Revision Date:	SDS Number:	Date of last issue: 01/21/2026
1.2	03/18/2026	11551266-00003	Date of first issue: 07/01/2025

Skin corrosion/irritation

Not classified based on available information.

Components:

tert-Butyl (6-[[[Z)-(1-methyl-1H-5-tetrazolyl)](phenyl)methylene]aminooxymethyl]-2-pyridyl)carbamate:

Species	:	Rabbit
Method	:	OPPTS 870.2500
Result	:	No skin irritation
Remarks	:	The test was conducted according to guideline

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

tert-Butyl (6-[[[Z)-(1-methyl-1H-5-tetrazolyl)](phenyl)methylene]aminooxymethyl]-2-pyridyl)carbamate:

Test Type	:	Maximization Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Method	:	OPPTS 870.2600
Result	:	negative
Remarks	:	The test was conducted according to guideline

Germ cell mutagenicity

Not classified based on available information.

Components:

tert-Butyl (6-[[[Z)-(1-methyl-1H-5-tetrazolyl)](phenyl)methylene]aminooxymethyl]-2-pyridyl)carbamate:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES)
		Method: OPPTS 870.5100
		Result: negative
		Remarks: The test was conducted according to guideline

		Test Type: In vitro mammalian cell gene mutation test
		Method: OPPTS 870.5300
		Result: negative
		Remarks: The test was conducted according to guideline

		Test Type: Chromosome aberration test in vitro
		Method: OPPTS 870.5375

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Serata Fungicide

Version	Revision Date:	SDS Number:	Date of last issue: 01/21/2026
1.2	03/18/2026	11551266-00003	Date of first issue: 07/01/2025

Result: negative

Remarks: The test was conducted according to guideline

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: Ingestion
Method: OPPTS 870.5395
Result: negative
Remarks: The test was conducted according to guideline

Carcinogenicity

Suspected of causing cancer.

Components:

tert-Butyl (6-[[[Z)-(1-methyl-1H-5-tetrazolyl)](phenyl)methylene]aminooxymethyl]-2-pyridyl)carbamate:

Species : Rat
Application Route : Ingestion
Exposure time : 2 Years
Method : OPPTS 870.4300
Result : positive
Remarks : The test was conducted according to guideline

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

tert-Butyl (6-[[[Z)-(1-methyl-1H-5-tetrazolyl)](phenyl)methylene]aminooxymethyl]-2-pyridyl)carbamate:

Effects on fertility : Test Type: Fertility/early embryonic development
Species: Rat
Application Route: Ingestion
Method: OPPTS 870.3800
Result: negative
Remarks: The test was conducted according to guideline

Effects on fetal development : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Serata Fungicide

Version	Revision Date:	SDS Number:	Date of last issue: 01/21/2026
1.2	03/18/2026	11551266-00003	Date of first issue: 07/01/2025

Method: OECD Test Guideline 416
Result: negative
Remarks: The test was conducted according to guideline

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

tert-Butyl (6-[[[Z)-(1-methyl-1H-5-tetrazolyl)](phenyl)methylene]aminooxymethyl]-2-pyridyl)carbamate:

Species	: Dog, male
NOAEL	: $\geq 1,506$ mg/kg
Application Route	: Ingestion
Exposure time	: 90 Days
Method	: OPPTS 870.3150
Remarks	: The test was conducted according to guideline

Species	: Rat
NOAEL	: $\geq 1,000$ mg/kg
Application Route	: Skin contact
Exposure time	: 28 Days
Method	: OPPTS 870.3200
Remarks	: The test was conducted according to guideline

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

tert-Butyl (6-[[[Z)-(1-methyl-1H-5-tetrazolyl)](phenyl)methylene]aminooxymethyl]-2-pyridyl)carbamate:

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): > 0.31 mg/l Exposure time: 96 h Remarks: No toxicity at the limit of solubility.
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 0.28 mg/l Exposure time: 48 h Remarks: No toxicity at the limit of solubility.
Toxicity to algae/aquatic plants	: EbC50 (Navicula pelliculosa (Freshwater diatom)): > 0.326 mg/l Exposure time: 96 h Remarks: No toxicity at the limit of solubility.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Serata Fungicide

Version	Revision Date:	SDS Number:	Date of last issue: 01/21/2026
1.2	03/18/2026	11551266-00003	Date of first issue: 07/01/2025

NOEC (Navicula pelliculosa (Freshwater diatom)): 0.067 mg/l
Exposure time: 96 h

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 0.076 mg/l
Exposure time: 33 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.13 mg/l
Exposure time: 21 d

Persistence and degradability

Components:

tert-Butyl (6-[[[(Z)-(1-methyl-1H-5-tetrazolyl)(phenyl)methylene]aminooxymethyl]-2-pyridyl]carbamate:

Biodegradation Simulation Tests : Environmental Compartment: Soil
Value type: DT50
Value: 64 d
Temperature: 20 °C

Bioaccumulative potential

Components:

tert-Butyl (6-[[[(Z)-(1-methyl-1H-5-tetrazolyl)(phenyl)methylene]aminooxymethyl]-2-pyridyl]carbamate:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Bioconcentration factor (BCF): 308

Partition coefficient: n-octanol/water : log Pow: > 4

Mobility in soil

Components:

tert-Butyl (6-[[[(Z)-(1-methyl-1H-5-tetrazolyl)(phenyl)methylene]aminooxymethyl]-2-pyridyl]carbamate:

Distribution among environmental compartments : log Koc: 3.58

Other adverse effects

No data available

Endocrine disrupting properties

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Serata Fungicide

Version	Revision Date:	SDS Number:	Date of last issue: 01/21/2026
1.2	03/18/2026	11551266-00003	Date of first issue: 07/01/2025

Contaminated packaging : guidelines.
Do not dispose of waste into sewer.
Follow advice on product label and/or leaflet.
Empty containers retain residue and can be dangerous.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(tert-Butyl (6-{{(Z)-(1-methyl-1H-5-tetrazolyl)(phenyl)methylene]aminooxymethyl}-2-pyridyl)carbamate)
Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes

IATA-DGR

UN/ID No. : UN 3077
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.
(tert-Butyl (6-{{(Z)-(1-methyl-1H-5-tetrazolyl)(phenyl)methylene]aminooxymethyl}-2-pyridyl)carbamate)
Class : 9
Packing group : III
Labels : Miscellaneous
Packing instruction (cargo aircraft) : 956
Packing instruction (passenger aircraft) : 956
Environmentally hazardous : yes

IMDG-Code

UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(tert-Butyl (6-{{(Z)-(1-methyl-1H-5-tetrazolyl)(phenyl)methylene]aminooxymethyl}-2-pyridyl)carbamate)
Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Domestic regulation

49 CFR

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Serata Fungicide

Version	Revision Date:	SDS Number:	Date of last issue: 01/21/2026
1.2	03/18/2026	11551266-00003	Date of first issue: 07/01/2025

UN/ID/NA number	: UN 3077
Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (tert-Butyl (6-[[[Z]-(1-methyl-1H-5-tetrazolyl)(phenyl)methylene]aminooxymethyl]-2-pyridyl)carbamate)
Class	: 9
Packing group	: III
Labels	: CLASS 9
ERG Code	: 171
Marine pollutant	: yes(tert-Butyl (6-[[[Z]-(1-methyl-1H-5-tetrazolyl)(phenyl)methylene]aminooxymethyl]-2-pyridyl)carbamate)
Remarks	: Above applies only to containers over 119 gallons (450 liters) in case of liquids, or 882 lbs. (400 kg) in case of solids. Shipment by ground under DOT is non-regulated for non-bulk packaging; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Carcinogenicity

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Ammonium sulfate	7783-20-2	>= 75 - < 80 %
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US State Regulations

Pennsylvania Right To Know

Ammonium sulfate	7783-20-2
tert-Butyl (6-[[[Z]-(1-methyl-1H-5-tetrazolyl)(phenyl)methylene]aminooxymethyl]-2-pyridyl)carbamate	500207-04-5
Active substance	: 20.28 % tert-Butyl (6-[[[Z]-(1-methyl-1H-5-

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Serata Fungicide

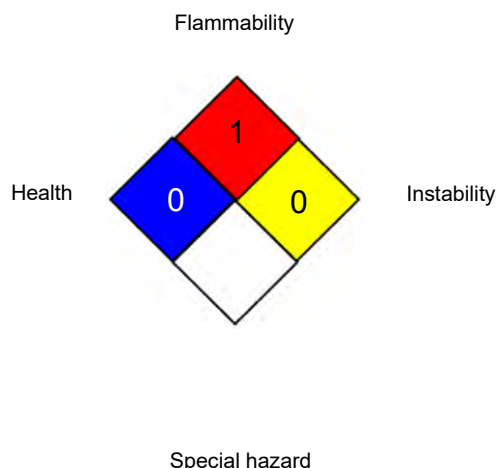
Version	Revision Date:	SDS Number:	Date of last issue: 01/21/2026
1.2	03/18/2026	11551266-00003	Date of first issue: 07/01/2025

tetrazolyl)(phenyl)methylene]aminooxymethyl}-2-pyridyl)carbamate

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV / CED:

HEALTH	*	1
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Serata Fungicide

Version	Revision Date:	SDS Number:	Date of last issue: 01/21/2026
1.2	03/18/2026	11551266-00003	Date of first issue: 07/01/2025

of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date : 03/18/2026

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8