

Version Revis

Revision Date: 12.10.2021

SDS Number: S00040271398

This version replaces all previous versions.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : VELISTA TURF FUNGICIDE

Design code : A20744D

Manufacturer or supplier's details

Company : Syngenta Australia Pty Ltd (ABN 33 002 933 717)

www.syngenta.com.au

Address : 2-4 Lyonpark Road

Macquarie Park NSW 2113

Australia

Telephone : (02) 8014 5200

Emergency telephone number : 13 11 26 (Poison Information Centre)

1800 033 111 (Syngenta)

Telefax : (02) 8876 8446

Recommended use of the chemical and restrictions on use

Recommended use : Fungicide

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

May form combustible dust concentrations in air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
penthiopyrad (ISO)	183675-82-3	>= 50 -< 70
kaolin	1332-58-7	>= 30 -< 60
Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts	68425-94-5	>= 3 -< 10
titanium dioxide; [in powder form containing 1	13463-67-7	< 10



Version Revision Date: SDS Number: This version replaces all previous versions. 2.0 12.10.2021 S00040271398

% or more of particles with aerodynamic diameter \leq 10 µm] sulfuric acid, mono-C12-18-alkyl esters, sodium salts \approx 1 -< 3

SECTION 4. FIRST AID MEASURES

General advice : Have the product container, label or Safety Data Sheet with

you when calling the emergency number, a poison control

center or physician, or going for treatment.

If inhaled : Move the victim to fresh air.

If breathing is irregular or stopped, administer artificial respira-

tion.

Keep patient warm and at rest.

Call a physician or poison control centre immediately.

In case of skin contact : Take off all contaminated clothing immediately.

Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Remove contact lenses.

Immediate medical attention is required.

If swallowed : If swallowed, seek medical advice immediately and show this

container or label.

Do NOT induce vomiting.

Most important symptoms

and effects, both acute and

delayed

Notes to physician

Nonspecific

No symptoms known or expected.

There is no specific antidote available. Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

Extinguishing media - large fires

Alcohol-resistant foam

or

Water spray

Unsuitable extinguishing

media

Do not use a solid water stream as it may scatter and spread

fire

Specific hazards during fire-

fighting

Fire will spread by burning with a visible flame.

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous prod-

ucts of combustion (see section 10).

Exposure to decomposition products may be a hazard to

health.

Specific extinguishing meth-

ods

Do not allow run-off from fire fighting to enter drains or water

courses.



Version 2.0

Revision Date: 12.10.2021

SDS Number: S00040271398

This version replaces all previous versions.

Cool closed containers exposed to fire with water spray.

Special protective equipment

for firefighters Hazchem Code Wear full protective clothing and self-contained breathing ap-

paratus. 2Z

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8.

Avoid dust formation.

Environmental precautions

Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for dis-

posal according to local regulations (see section 13).

Do not create a powder cloud by using a brush or compressed

air.

Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents.

Retain and dispose of contaminated wash water.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling

This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flammable solvents.

In general personnel handling this material and all conducting equipment should be electrically earthed or grounded. Bulk bags (FIBC) used to contain this material should be Type B, Type C or Type D. Type C bags must be electrically grounded or earthed before powder is charged to or discharged from the bag. If metal or fibre drums are used to contain this material, make certain the metal parts are bonded to the filling equipment and grounded.

This material can become readily charged in most operations.

Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.

Conditions for safe storage

Keep containers tightly closed in a dry, cool and well-

ventilated place.

Keep out of the reach of children.



Version 2.0

Revision Date: 12.10.2021

SDS Number: S00040271398

This version replaces all previous versions.

Keep away from food, drink and animal feedingstuffs.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
kaolin	1332-58-7	TWA	10 mg/m3	AU OEL
		TWA (Res- pirable par- ticulate mat- ter)	2 mg/m3	ACGIH
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	TWA	10 mg/m3	AU OEL
		TWA	10 mg/m3 (Titanium dioxide)	ACGIH

Engineering measures

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards.

Where necessary, seek additional occupational hygiene ad-

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Hand protection

Remarks : No special protective equipment required. Eye protection : No special protective equipment required. Skin and body protection : No special protective equipment required.

Select skin and body protection based on the physical job

requirements.

Protective measures : The use of technical measures should always have priority



VELISTA TURF FUNGICIDE

Version 2.0

Revision Date: 12.10.2021

SDS Number: S00040271398 This version replaces all previous versions.

over the use of personal protective equipment.

When selecting personal protective equipment, seek appro-

priate professional advice.

Personal protective equipment should comply with relevant

national standards

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance solid

Colour brown

Odour No data available

Odour Threshold No data available

pН

Concentration: 1 % w/v

Melting point/range No data available

Boiling point/boiling range No data available

Flash point No data available

No data available Evaporation rate

Flammability (solid, gas) May form combustible dust concentrations in air.

Burning number 5 (20 °C)

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

No data available Vapour pressure

Relative vapour density No data available

No data available Density

Solubility(ies)

Water solubility No data available

No data available Solubility in other solvents

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature

No data available



VELISTA TURF FUNGICIDE

Version 2.0

Revision Date: 12.10.2021

SDS Number: S00040271398

This version replaces all previous versions.

Decomposition temperature : No data available

Minimum ignition temperature

Viscosity

: 450 °C

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : No data available

Minimum ignition energy : 10 - 30 mJ

Particle size : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : None reasonably foreseeable.
Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

Conditions to avoid : No decomposition if used as directed.

Incompatible materials : None known.

Hazardous decomposition

products

No hazardous decomposition products are known.

No dangerous reaction known under conditions of normal use.

SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes : Ingestion

Inhalation Skin contact Eye contact

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.10 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Components:

penthiopyrad (ISO):

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Assessment: The substance or mixture has no acute oral tox-

icity



VELISTA TURF FUNGICIDE

Version Revision Date: SDS Number: This version replaces all previous versions. 2.0 12.10.2021 S00040271398

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.669 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

sulfuric acid, mono-C12-18-alkyl esters, sodium salts:

Acute oral toxicity : LD50 (Rat, male and female): 2,600 mg/kg

Skin corrosion/irritation

Product:

Species : Rabbit

Result : No skin irritation

Components:

penthiopyrad (ISO):

Species : Rabbit

Result : No skin irritation

Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formalde-

hyde, sodium salts:

Method : in vitro skin corrosion test

Result : Irritating to skin.

sulfuric acid, mono-C12-18-alkyl esters, sodium salts:

Species : Rabbit

Result : Irritating to skin.

Serious eye damage/eye irritation

Product:

Species : Rabbit

Result : No eye irritation

Components:

penthiopyrad (ISO):

Species : Rabbit

Result : No eye irritation



Version Revision Date: SDS Number: This version replaces all previous versions.

12.10.2021 S00040271398 2.0

Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formalde-

hyde, sodium salts:

Result Risk of serious damage to eyes.

Method in vitro eye irritation test

sulfuric acid, mono-C12-18-alkyl esters, sodium salts:

Species Rabbit

Result Risk of serious damage to eyes.

Respiratory or skin sensitisation

Product:

Test Type Local lymph node assay (LLNA)

Species Mouse

Result Did not cause sensitisation on laboratory animals.

Components:

penthiopyrad (ISO):

Species Guinea pig

Result Does not cause skin sensitisation.

Chronic toxicity

Germ cell mutagenicity

Components:

penthiopyrad (ISO):

Germ cell mutagenicity -: Animal testing did not show any mutagenic effects.

Assessment

sulfuric acid, mono-C12-18-alkyl esters, sodium salts:

Germ cell mutagenicity -: In vitro tests did not show mutagenic effects

Assessment

Carcinogenicity

Components:

penthiopyrad (ISO):

Carcinogenicity - Assess-Weight of evidence does not support classification as a car-

ment cinogen

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]:

Carcinogenicity - Assess-

Weight of evidence does not support classification as a car-

ment cinogen



Version 2.0

Revision Date: 12.10.2021

SDS Number: S00040271398

This version replaces all previous versions.

Reproductive toxicity

Components:

penthiopyrad (ISO):

Reproductive toxicity - As-

sessment

No toxicity to reproduction

STOT - repeated exposure

Components:

penthiopyrad (ISO):

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

penthiopyrad (ISO):

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0.29 mg/l

Exposure time: 96 h

LC50 (Cyprinus carpio (Carp)): 0.568 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2.53 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)): 4

mg/l

Exposure time: 72 h

NOEC (Raphidocelis subcapitata (freshwater green alga)):

0.45 mg/l

End point: Growth rate Exposure time: 72 h

Toxicity to fish (Chronic tox-

icity)

NOEC (Pimephales promelas (fathead minnow)): 0.051 mg/l

Exposure time: 33 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 0.471 mg/l

Exposure time: 21 d

sulfuric acid, mono-C12-18-alkyl esters, sodium salts:

Toxicity to fish : LC50: 17 mg/l

Exposure time: 96 h
Test Type: semi-static test



Version Revision Date:

2.0 12.10.2021 SDS Number: S00040271398 This version replaces all previous versions.

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 15 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae/aquatic

plants

ErC50 (green algae): 20 mg/l

Exposure time: 72 h

NOEC (green algae): 3 mg/l End point: Growth rate Exposure time: 72 h

Toxicity to fish (Chronic tox-

icity)

NOEC (Fish): 0.11 - 0.35 mg/l

Exposure time: 34 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia (water flea)): 0.419 mg/l

Exposure time: 7 d

Toxicity to microorganisms

EC50 (Bacteria): 680 mg/l

Exposure time: 3 h

Persistence and degradability

Components:

penthiopyrad (ISO):

Biodegradability Result: Not readily biodegradable.

Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:

Biodegradability Result: Not readily biodegradable.

sulfuric acid, mono-C12-18-alkyl esters, sodium salts:

Biodegradability Result: Readily biodegradable.

Bioaccumulative potential

Components:

penthiopyrad (ISO):

Bioaccumulation Remarks: Does not bioaccumulate.

Mobility in soil

No data available

Other adverse effects

No data available



Version 2.0

Revision Date: 12.10.2021

SDS Number: S00040271398 This version replaces all previous versions.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Do not dispose of waste into sewer.

Where possible recycling is preferred to disposal or incinera-

If recycling is not practicable, dispose of in compliance with

local regulations.

Non-returnable containers: Contaminated packaging

> Triple rinse containers. Add rinsings to spray tank

If recycling, replace cap and return clean containers to recycler or designated collection point. Containers marked with the drumMUSTER container logo can be taken to a drumMUS-TER collection site (02 6206 6868, www.drummuster.org.au). Empty containers can be landfilled, when in accordance with

the local regulations.

If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty

containers and product should not be burnt.

Returnable containers:

Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number **UN 3077**

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(PENTHIOPYRAD)

Class 9 Packing group Ш Labels 9

IATA-DGR

UN 3077 UN/ID No.

Proper shipping name Environmentally hazardous substance, solid, n.o.s.

(PENTHIOPYRAD)

Class 9 Packing group Ш

Labels Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction (passen-

ger aircraft)

956

956

Environmentally hazardous yes



Version Revision Date: SDS Number:

2.0 12.10.2021 S00040271398

This version replaces all previous versions.

IMDG-Code

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(PENTHIOPYRAD)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

ADG

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(PENTHIOPYRAD)

Class : 9
Packing group : III
Labels : 9
Hazchem Code : 2Z

Remarks : Environmentally Hazardous Substances meeting the descrip-

tions of UN 3077 or UN 3082 are not subject to the Australian Code for the Transport of Dangerous Goods (ADG). This applies when transported by road or rail in packagings that do not incorporate a receptacle exceeding 500 kg(L) or IBCs per

ADG Special Provision AU01.

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

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

Standard for the Uniform : Schedule 5

Scheduling of Medicines and

Poisons

Prohibition/Licensing Requirements : There is no applicable prohibition,

authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regula-

tions.

Product Registration Number : APVMA Approval No. 65718



Version Revision Date: 2.0 12.10.2021

SDS Number: S00040271398

This version replaces all previous versions.

SECTION 16. OTHER INFORMATION

Revision Date : 12.10.2021

Items where changes have been made to the previous version are highlighted in the body of this

document by two vertical lines.

Date format : dd.mm.yyyy

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

AU OEL : Australia. Workplace Exposure Standards for Airborne Con-

taminants.

ACGIH / TWA : 8-hour, time-weighted average

AU OEL / TWA : Exposure standard - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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 Organisation 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - 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; WHMIS - Workplace Hazardous Materials Information System

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific



VELISTA TURF FUNGICIDE

Version Revision Date: SDS Number: This version replaces all previous versions. 2.0 12.10.2021 S00040271398

material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

AU / EN