


## SAFETY DATA SHEET

### Section 1: Identification: Product identifier and chemical identity

<b>Product Identifier:</b>	<b>VELISTA Turf Fungicide</b>
<b>Other Means of Identification:</b>	<b>Proper shipping name:</b> Environmentally Hazardous Substance, Solid, N.O.S. (penthiopyrad), <b>Applicable only for marine and air transport</b>
	<b>Product code:</b> A20744D
<b>Recommended Use:</b>	For the control of various diseases in turf
<b>Details of manufacturer or importer</b>	<b>Syngenta Australia Pty Ltd</b> ABN 33 002 933 717
<b>Address:</b>	<b>Level 1, 2-4 Lyonpark Road</b> <b>MACQUARIE PARK NSW 2113</b> <b>AUSTRALIA</b>
<b>Website:</b>	<b>syngenta.com.au</b>
<b>Phone Number:</b>	<b>(02) 8876 8444</b>
<b>Emergency Phone Number:</b>	<b>24 hours - 1800 033 111</b>

### Section 2: Hazards identification

<b>Classification of the Hazardous Chemical:</b>	Eye irritation: Category 2B
<b>Signal Word:</b>	WARNING
<b>Hazard Statement(s):</b>	H320 Causes eye irritation.
<b>Precautionary Statement(s):</b>	P102 Keep out of reach of children P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTRE/doctor if you feel unwell. P391 Collect spillage P501 Dispose of contents/container to an approved waste disposal plant
<b>Hazard Symbols:</b>	

### Section 3: Composition and information on ingredients

SUBSTANCE	
<b>Chemical Identity of Pure Substance:</b>	Penthiopyrad
<b>Synonym:</b>	MTF-753, SYN501369
<b>CAS Number:</b>	183675-82-3

<b>MIXTURE</b>		
<b>Chemical Identity of Ingredients:</b>	<b>CAS No</b>	<b>Proportion (% w/v)</b>
Penthiopyrad	183675-82-3	50
Kaolin clay	1332-58-7	30 - 60
Sodium polynaphthalenesulfonate	9084-06-4	<10
Non-hazardous ingredients	-	to 100

### Section 4: First aid measures

<b>Description of Necessary First Aid Measures:</b>	<p>In case of poisoning by any exposure route contact a doctor or Poisons Information Centre on 131 126. Have the product label or SDS with you when calling or going for treatment.</p> <p><b>Ingestion:</b> If swallowed, seek medical advice immediately and show the container or label. DO NOT induce vomiting. Have the person sip a glass of water if able to swallow. DO NOT give anything by mouth to an unconscious person.</p> <p><b>Eye contact:</b> Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.</p> <p><b>Skin contact:</b> Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a doctor. Wash contaminated clothing before re-use.</p> <p><b>Inhalation:</b> Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a doctor or Poisons Information Centre immediately.</p>
<b>Symptoms Caused by Exposure:</b>	Poisoning symptoms in laboratory animals were non-specific
<b>Medical Attention and Special Treatment:</b>	There is no specific antidote available. Treat symptomatically.

### Section 5: Fire fighting measures

<b>Suitable Extinguishing Equipment:</b>	<p><b>Small fires:</b> Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.</p> <p><b>Large fires:</b> Use alcohol resistant foam or water spray. DO NOT use a solid water stream as it may scatter and spread fire</p>
<b>Specific Hazards Arising from the Chemical:</b>	<p>As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion. Combustion or thermal decomposition will evolve toxic and irritant vapours. Exposure to decomposition products may be a hazard to health</p>
<b>Special Protective Equipment and Precautions for Fire Fighters:</b>	<p>Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.</p>

## Section 6: Accidental release measures

<b>Personal Precautions, Protective Equipment and Emergency Procedures:</b>	In case of spillage it is important to take all steps necessary to <ul style="list-style-type: none"> <li>• Avoid eye and skin contact</li> <li>• Avoid contamination of waterways</li> <li>• Wear full length clothing and PVC gloves</li> <li>• Keep all bystanders away</li> </ul>
<b>Environmental precautions:</b>	Prevent further leakage or spillage if safe to do so. DO NOT flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
<b>Methods and Materials for Containment and Clean Up:</b>	<p><b>Procedure for spill</b></p> <ol style="list-style-type: none"> <li>(1) Keep all bystanders away</li> <li>(2) Wear full length clothing and PVC gloves</li> <li>(3) Reposition any leaking containers so as to minimise leakage</li> <li>(4) <b>For a product spill:</b> Sweep spill into a pile. <b>For a prepared spray spill:</b> Dam and absorb spill with an absorbent material (eg sand or soil).</li> <li>(5) Shovel into drums</li> <li>(6) Disposal of the material will depend upon the extent of the spill <ul style="list-style-type: none"> <li>• For quantities up to 50 kg of product bury in a secure landfill site</li> <li>• For quantities greater than 50 kg seek advice from the manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established</li> </ul> </li> <li>(7) Decontaminate spill area with detergent and water and rinse with the smallest volume of water practicable</li> </ol>

## Section 7: Handling and storage

<b>Precautions for Safe Handling:</b>	When opening the container, mixing and loading and preparing spray, wear cotton overalls buttoned to the neck and wrist and a washable hat (or equivalent clothing) and goggles. Wash hands after use. If product in eyes, wash immediately with water.
<b>Conditions for Safe Storage, Including any Incompatibilities:</b>	Store in the closed, original container in a dry, cool, well ventilated area out of direct sunlight.

## Section 8: Exposure controls and personal protection

### ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

	Component	Exposure limit	Value type
<b>National Exposure Standards:</b>	Penthiopyrad	Not established	-
	Kaolin Clay	10 mg/m <sup>3</sup>	TWA
	Sodium polynaphthalenesulfonate	Not established	-
<b>Biological Limit Values:</b>	No biological limits allocated		
<b>Engineering Controls:</b>	No special requirements. Product is used outdoors.		
<b>Personal Protective Equipment:</b>	When opening the container, mixing and loading and preparing spray, wear cotton overalls buttoned to the neck and wrist and a washable hat (or equivalent clothing) and goggles. Wash hands after use. If product in eyes, wash immediately with water.		

## Section 9: Physical and chemical properties

<b>Appearance:</b>	Light brown granules	<b>Boiling Point/Range:</b>	Not available
<b>Odour:</b>	Weak, musty	<b>Freezing/Melting Point:</b>	Not available
<b>pH:</b>	6 to 9	<b>Solubility:</b>	7.53 mg/L water
<b>Vapour Pressure:</b>	6.43 x 10 <sup>-3</sup> mPa (25°C)	<b>Specific Gravity or Density:</b>	Not applicable
<b>Vapour Density:</b>	Not available		

<b>Flash Point:</b>	Not available	<b>Explosive Properties:</b>	Not an explosive substance
<b>Upper and Lower Flammable (Explosive) Limits in Air:</b>	Not available	<b>Oxidising Properties:</b>	Not an oxidising substance
<b>Ignition Temperature:</b>	Not available	<b>Combustibility:</b>	Not combustible
		<b>Corrosiveness:</b>	Not available

## Section 10: Stability and reactivity

<b>Reactivity:</b>	None reasonably foreseeable
<b>Chemical Stability:</b>	Stable under normal conditions
<b>Possibility of Hazardous Reactions:</b>	No dangerous reaction known under conditions of normal use
<b>Conditions to Avoid:</b>	No decomposition if used as directed.
<b>Incompatible Materials:</b>	None known
<b>Hazardous Decomposition Products:</b>	Combustion or thermal decomposition will evolve toxic and irritant vapours.

## Section 11: Toxicological information

Health Effects from Likely Routes of Exposure:		
<b>Acute</b>	<b>Oral toxicity:</b>	<b>LOW TOXICITY</b> Tests on rats indicate this product has a low toxicity following single doses of undiluted product LD <sub>50</sub> = 5000 mg/kg
	<b>Dermal toxicity:</b>	<b>LOW TOXICITY</b> Tests on rabbits indicate this product has a low toxicity following skin contact with undiluted product LD <sub>50</sub> = 5000 mg/kg
	<b>Inhalation:</b>	<b>LOW TOXICITY</b> Tests on rats indicate this product is not harmful due to inhalation of undiluted product. LC <sub>50</sub> (4h) = >5.1 mg/L air
	<b>Skin irritation:</b>	<b>NOT A SKIN IRRITANT</b>
	<b>Eye irritation:</b>	<b>SLIGHT IRRITANT</b>
	<b>Sensitisation:</b>	<b>NOT A SKIN SENSITISER</b>

**Chronic** **Penthiopyrad technical** has been extensively tested on laboratory mammals and in test tube systems. No evidence was obtained of mutagenic, carcinogenic, teratogenic neurotoxic or reproductive effects.

## Section 12: Ecological information

<b>Ecotoxicity</b>	<p><b>Toxicity to fish:</b> <b>Highly toxic to fish</b> <i>Pimephales promelas</i> (fathead minnow): LC<sub>50</sub> = 0.29 mg/L, 96 h</p> <p><b>Toxicity to daphnia and other aquatic invertebrates:</b> <b>Moderately toxic to Daphnia</b> <i>Daphnia magna</i> (Water flea): EC<sub>50</sub> = 2.5 mg/L, 48 h</p> <p><b>Toxicity to algae:</b> <b>Moderately toxic to algae</b> <i>Pseudokirchneriella subcapitata</i> (green algae): ErC<sub>50</sub> = &gt;4.0 mg/L, 72 h</p> <p><b>Toxicity to soil dwelling organisms:</b> <b>Practically non-toxic to earthworms</b> <i>Eisenia foetida</i> (earthworm): LC<sub>50</sub> &gt;1000 mg/kg, 14 day</p>
<b>Persistence and Degradability:</b>	Not readily biodegradable. Does not bioaccumulate
<b>Mobility in Soil:</b>	Slightly mobile in soil
<b>Bioaccumulative Potential:</b>	Does not bioaccumulate

## Section 13: Disposal considerations

<b>Disposal Methods:</b>	Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. 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.
<b>Special Precautions for Incineration or Landfill:</b>	Not applicable

## Section 14: Transport information

<b>LAND TRANSPORT ADG</b>	Not a dangerous good in Australia		
<b>UN Number:</b>	None allocated	<b>Packing Group:</b>	None allocated
<b>UN Proper Shipping Name:</b>	None allocated	<b>Special Precautions for User:</b>	None allocated
<b>Transport Hazard Class:</b>	None allocated	<b>Hazchem or Emergency Action Code:</b>	None allocated
<b>Subsidiary Risk:</b>	None allocated		

<b>SEA TRANSPORT</b> IMDG			
<b>UN Number:</b>	UN 3077	<b>Subsidiary Risk:</b>	-
<b>UN Proper Shipping Name:</b>	Environmentally Hazardous Substance, Solid, N.O.S. (penthiopyrad)	<b>Packing Group:</b>	III
<b>Transport Hazard Class:</b>	9	<b>Environmental hazards for Transport Purposes:</b>	marine pollutant

<b>AIR TRANSPORT</b> IATA - DGR			
<b>UN Number:</b>	UN 3077	<b>Subsidiary Risk:</b>	-
<b>UN Proper Shipping Name:</b>	Environmentally Hazardous Substance, Solid, N.O.S. (penthiopyrad)	<b>Packing Group:</b>	III
<b>Transport Hazard Class:</b>	9		

### Section 15: Regulatory information

<b>APVMA Product Number:</b>	65718
<b>Poisons Schedule (SUSMP):</b>	5

### Section 16: Any other relevant information

<b>Date of preparation or last revision:</b> May 2017
<b>Source of Data:</b> The information provided in this SDS is sourced from Syngenta internal studies which have been conducted according to Regulatory requirements including OECD and CIPAC Guidelines and EC Directives. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.
<b>Note:</b> This product is a registered agricultural chemical and must, therefore, be used in accordance with the container label directions
<b>CONTACT POINT:</b> Regulatory Affairs Manager, Syngenta Australia Pty Ltd (02) 8876 8444 <b>24 HOURS EMERGENCY CONTACT: 1800 033 111</b>
This Material Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.
<b>DISCLAIMER</b> This product complies with the specifications in its statutory registration. Implied terms and warranties are excluded. Syngenta's liability for breach of the express or any non-excludable implied warranty is limited to product replacement or purchase price refund. The purchaser must determine suitability for intended purpose and take all proper precautions in the handling, storage and use of the product including those on the label and/or safety data sheet failing which Syngenta shall have no liability.