

Product name: Acanto® Fungicide**Issue Date: 5.10.2021**

DUPONT (NEW ZEALAND) LIMITED encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container.

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Acanto® Fungicide
Identified uses: End use fungicide product

COMPANY IDENTIFICATION

DUPONT (NEW ZEALAND) LIMITED
Private Bag 2017
NEW PLYMOUTH 4342
NEW ZEALAND

Customer Information Number: 0800-803-939
NZCustomerservice@corveva.com

EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: +64 6 751 2407
Local Emergency Contact: 0800 844 455

For medical advice, contact the New Zealand Poisons Information Centre:
0800 POISON (0800 764 766)
Transport Emergency Only Dial: 111

This SDS may not provide exhaustive guidance for all the GHS controls assigned to this substance. The NZ EPA website www.epa.govt.nz should be consulted for a full list of triggered controls and cited regulations.

2. HAZARDS IDENTIFICATION

Hazard classification

NEW ZEALAND HAZARDOUS SUBSTANCES CLASSIFICATION: Classified as hazardous according to criteria in the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Notice 2017, and the Hazardous Substances (Classification) Notice 2017. Refer to Section 15 for EPA Approval Number.

GHS classifications:

Hazardous to soil organisms
Hazardous to the aquatic environment acute - Category 1
Hazardous to the aquatic environment chronic - Category 1

Hazard pictogramsSignal word: **WARNING!****Hazard statements**

Very toxic to aquatic life with long lasting effects.
Toxic to the soil environment

Prevention

Avoid release to the environment.
IF INHALED: Call a POISON CENTER or doctor/ physician if you feel unwell.
Call a POISON CENTER or doctor/ physician if you feel unwell.

Response

Collect spillage.

Storage

Store locked up.

Disposal

Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CASRN | Concentration |
|------------------|---------------|---------------|
| Picoxystrobin | 117428-22-5 | 20 - 30 % |
| Propane-1,2-diol | 57-55-6 | 7 – 10 % |
| Balance | Not available | 60 - 73 % |

4. FIRST AID MEASURES

Consult the National Poisons Information Centre (0800 POISON (0800 764 766)) or a doctor in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If breathing difficulties occur seek medical attention immediately. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

Description of first aid measures

General advice: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask

etc). Call a poison control center or doctor for treatment advice. If breathing is difficult, oxygen should be administered by qualified personnel.

Skin contact: Take off contaminated clothing immediately. Wash off skin immediately with soap and plenty of water. Call a poison control center or doctor for treatment advice. In the case of skin irritation or allergic reactions see a physician. Wash contaminated clothing before re-use.

Eye contact: Hold eyes 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 eyes. Call a poison control center or doctor for treatment advice.

Ingestion: Call a poison control center or doctor for treatment advice. If victim is conscious: Rinse mouth. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed: Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically.

5. FIREFIGHTING MEASURES

Hazchem code: •3Z

Suitable extinguishing media: Water spray, Foam, Dry chemical, Carbon dioxide (CO₂) Water spray, Foam, Dry chemical, Carbon dioxide (CO₂)

Unsuitable extinguishing media: High volume water jet, (contamination risk).

Special hazards arising from the substance or mixture

Hazardous combustion products: No information available. Refer to section 10 - Thermal Decomposition.

Unusual Fire and Explosion Hazards: No information available.

Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. On small fires: If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this (M)SDS.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (includes fire-fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Evacuate personnel to safe areas. Keep people away from and up-wind of spill/leak. Ensure adequate ventilation. Avoid contact with skin and eyes. Wear suitable personal protective equipment. Refer to section 7: Handling, for additional precautionary measures. For additional information, refer to Section 8: Exposure Controls and Personal Protection.

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12: Ecological Information.

Methods and materials for containment and cleaning up: Prevent further leakage or spillage. Contain spilled material if possible. Small spills: Soak up with sawdust, sand, oil dry or other absorbent material. Collect in suitable and properly labeled containers. Dispose of in an approved container. Large spills should be collected mechanically (remove by pumping) for disposal. Contact Corteva Agriscience for further clean-up assistance. See Section 13: Disposal Considerations, for additional information.

7. HANDLING AND STORAGE

Precautions for safe handling: Keep out of reach of children. Keep away from heat and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling. See Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Conditions for safe storage: Store in a dry place, out of direct sunlight. Store in original container. Keep container tightly closed. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Storage temperature: $\geq 5^{\circ}\text{C}$. Stable under recommended storage conditions.

This substance is subject to a requirement for an emergency management plan, secondary containment and signage, whenever it is held in quantities of 100 L or more, either alone or in aggregate with other hazardous substances. See Hazardous Substances Emergency Management and Identification Regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist:

| Component | Regulation / Type of listing | Value |
|------------------|------------------------------|---|
| Propane-1,2-diol | NZ OEL – WES-TWA | 10 mg/m ³ (particulate) |
| | NZ OEL – WES-TWA | 150 ppm 474 mg/m ³ (Vapour and particulates) |

RECOMMENDATIONS IN THIS SECTION ARE FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD SEE THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

Exposure controls

Engineering controls: Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

Individual protection measures

Eye/face protection: Use safety glasses (with side shields).

Hand protection: Use chemical resistant gloves classified under standard AS/NZS 2161.10: Protective gloves against chemicals and micro-organisms. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Other protection: Wear protective clothing such as gloves, apron, boots, or coveralls, as appropriate. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not re-use them.

Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. In misty atmospheres, use an approved particulate respirator.

The following should be effective types of air-purifying respirators: Organic vapour cartridge with a particulate pre-filter

Other Information: Selection and use of personal protective equipment should be in accordance with the recommendations in one or more of the relevant Australian/New Zealand Standards, including:

AS/NZS 1336: Eye and Face protection - Guidelines.

AS/NZS 1337: Personal eye protection - Eye and face protectors for occupational applications.

AS/NZS 1715: Selection, use and maintenance of respiratory protective equipment.

AS/NZS 2161: Occupational protective gloves.

AS/NZS 2210: Occupational protective footwear.

AS/NZS 4501: Occupational protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--------------------------------|
| Appearance - Physical state | Liquid. |
| - Colour | Off-white |
| Odour | Not significant |
| Odour Threshold | No information available |
| pH | 6.1 – 8.4 |
| Melting point/range | Not applicable |
| Freezing point | No test data available |
| Boiling point (760 mmHg) | Not available for this mixture |
| Flash point - closed cup | Does not flash |
| Evaporation Rate (Butyl Acetate = 1) | No information available |
| Flammability (solid, gas) | No information available |
| Lower explosion limit | No information available |
| Upper explosion limit | No information available |

| | |
|---|---|
| Vapour Pressure | No information available |
| Relative Vapour Density (air = 1) | No information available |
| Density | 1.11 g/cm ³ at 21 °C |
| Water solubility | Miscible. |
| Partition coefficient: n-octanol/water | No information available |
| Auto-ignition temperature | Not auto-flammable. Ignition temperature: 460°C |
| Decomposition temperature | No information available |
| Dynamic Viscosity | 80 mPa.s (25 °C) |
| Kinematic Viscosity | No information available |
| Explosive properties | No information available |
| Oxidizing properties | The product is not oxidizing. |
| Molecular weight | No information available |

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Reactivity: No information available.

Chemical stability: Stable at normal temperatures and storage conditions.

Possibility of hazardous reactions: Hazardous polymerization will not occur. Heating can release hazardous gases.

Conditions to avoid: Temperature: ≤ -5°C. Protect from frost. To avoid thermal decomposition, do not overheat.

Incompatible materials: No materials to be especially mentioned.

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapours., Burning produces noxious and toxic fumes.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity

For the product: LD50/Rat: 5,000 mg/kg

Acute dermal toxicity

For the product: LD50/Rat: > 2,000 mg/kg

Acute inhalation toxicity

For the product: LC50/4 h/Rat(dust/mist): > 5.3 mg/l

Skin corrosion/irritation

For the product: Rabbit. No skin irritation.

Serious eye damage/eye irritation

For the product: Rabbit. No eye irritation.

Sensitization

For product: Guinea pigs. Did not cause sensitisation on laboratory animals. Minimal effects that do not meet the threshold for classification.

For respiratory sensitization: No relevant data found.

Specific Target Organ Systemic Toxicity (Single Exposure)

Picoxystrobin: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Propane-1,2-diol: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

Picoxystrobin:

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Oral - feed/Mouse 28 d: No toxicologically significant effects were found.

Dermal/Rat 28 d: No toxicologically significant effects were found.

Oral/Mouse 90 d: Reduced body weight gain, Increased liver weight

Oral - feed/Rat 90 d: Reduced body weight gain, Increased liver weight, No effect to neurotoxicity.

Oral/Dog 1 yr: Reduced body weight gain

Oral/Mouse 18 Months: Reduced body weight gain, Increased liver weight, Gastrointestinal effects

Propane-1,2-diol:

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity:

Ingestion/Cat 94 d

NOAEL: 443 mg/kg

LOAEL: 4,239 mg/kg

No toxicologically significant effects were found.

Inhalation/Rat 90 d

NOAEL: > 2.2 mg/l

LOAEL: 0.16 mg/l

No toxicologically significant effects were found.

Carcinogenicity

Picoxystrobin: Not classifiable as a human carcinogen. Overall weight of evidence indicates that the substance is not carcinogenic.

Propane-1,2-diol: Animal testing did not show any carcinogenic effects.

Teratogenicity

Picoxystrobin: Animal testing showed no developmental toxicity.

Propane-1,2-diol: Animal testing showed no developmental toxicity

Reproductive toxicity

Picoxystrobin: No toxicity to reproduction

Propane-1,2-diol: No toxicity to reproduction. Animal testing showed no reproductive toxicity. No effects on or via lactation

Mutagenicity

Picoxystrobin: Weight of evidence does not support classification as a germ cell mutagen.

Propane-1,2-diol: Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Aspiration Hazard

Picoxystrobin: No aspiration toxicity classification.

Propane-1,2-diol: No aspiration toxicity classification.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute and prolonged toxicity to fish

As product: LC50/96 h/Oncorhynchus mykiss (rainbow trout): 0.24 mg/l

Toxicity to aquatic plants

As product: ErC50/72 h/Pseudokirchneriella subcapitata (green algae): 1.2 mg/l

Acute toxicity to aquatic invertebrates

As product: EC50/48 h/Daphnia magna (Water flea): 0.086 mg/l

Chronic toxicity to aquatic Invertebrates

Picoxystrobin: NOEC/21 d/Daphnia magna (Water flea): 0.008 mg/l

Propane-1,2-diol: NOEC/7 d/Ceriodaphnia dubia (water flea): 13,020 mg/l

Persistence and degradability

Picoxystrobin: Not biodegradable

Propane-1,2-diol: Biodegradable

Bioaccumulative potential

Propane-1,2-diol: Bioaccumulation is unlikely.

Mobility in Soil

No information available.

Other adverse effects

As product: Environmental Hazards: For Terrestrial Uses: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high-water mark.

13. DISPOSAL CONSIDERATIONS

Disposal methods: Do not re-use empty containers. Triple rinse containers. Add rinsing's to spray tank. 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 wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

Waste handling, treatment and disposal practices must be in compliance with the New Zealand Hazardous Substances (Disposal) Notice 2017. Additional local requirements may be applicable in accordance with planning controls under the Resource Management Act. Regulations concerning waste management may vary in different locations.

14. TRANSPORT INFORMATION

PUBLIC PASSENGER VEHICLE TRANSPORT: Not to be transported in passenger vehicles

Classification for ROAD and Rail transport:

| | |
|------------------------------|---|
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Picoxystrobin) |
| UN number | UN 3082 |
| Class | 9 |
| Packing group | III |
| Environmental hazards | Picoxystrobin |

Classification for SEA transport (IMO-IMDG):

| | |
|---|---|
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Picoxystrobin) |
| UN number | UN 3082 |
| Class | 9 |
| Packing group | III |
| Marine pollutant | Picoxystrobin |
| Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code | Consult IMO regulations before transporting ocean bulk |

Classification for AIR transport (IATA/ICAO):

| | |
|-----------------------------|---|
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Picoxystrobin) |
| UN number | UN 3082 |
| Class | 9 |
| Packing group | III |

Hazchem code: •3Z

Matters needing attention for transportation

Marine Pollutants in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code and IATA special provision A197. If the product meets these special provisions, it may be shipped in New Zealand as a non-dangerous goods under provisions in NZS 5433 code which accepts IMDG and IATA classification.

This information is not intended to convey all specific regulatory or operational requirements/ information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

ACVMG APPROVAL NUMBER: P7151

EPA Approval Code: HSR000131

ADVICE TO PRODUCT USERS REGARDING GHS CONTROLS: Users of this product should make reference to the New Zealand Hazardous Substances and New Organisms Act and Regulations, and the Health and Safety at Work Act for relevant risk management controls. Additional local requirements may be applicable in accordance with planning controls under the Resource Management Act. Refer to Environment Protection Authority for more information <http://www.epa.govt.nz>

16. OTHER INFORMATION

Revision

Identification Number: 101200013 / A157 / Issue Date: 05.10.2021 / Version: Replaces 20.05.2021

Sections amended: 1, 2, 15

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; 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; 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

DUPONT (NEW ZEALAND) LIMITED urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ

between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific SDS's, we are not and cannot be responsible for SDS's obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.

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