

ACANTO® PLUS 280 SCRef. 130000029884
Version 2.1 (replaces: Version 2.0)Revision Date 13.06.2018
Issue Date 04.03.2019

This Safety Data Sheet adheres to the standards and regulatory requirements of the European Union and may not meet the regulatory requirements in other countries.

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name : ACANTO® PLUS 280 SC
Synonyms : B12330271
DPX-PZX74 280SC

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Fungicide

1.3. Details of the supplier of the safety data sheet

Company : DuPont de Nemours South Africa (Pty) Ltd
34 Whiteley Road
Block B, 1st Floor
Melrose Arch
South Africa

Telephone : +27 (0) 11 218 8600
Telefax : +27 (0) 11 218 8664
E-mail address : SDS@Corteva.com

1.4. Emergency telephone number

Emergency telephone number : 0-800-983-611 (Toll free in-country) or +(44)-870-8200418 (CHEMTREC)
: +27 (0) 83 123 3911
: Poison Centres may only possess information required for products in accordance with Regulation (EC) No 1272/2008 and national legislation.

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EU) 1272/2008 (CLP)**

Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

2.2. Label elements**Labelling according to Regulation (EU) 1272/2008 (CLP)**



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Warning

H317 May cause an allergic skin reaction.
H361d Suspected of damaging the unborn child.
H410 Very toxic to aquatic life with long lasting effects.

Special labelling of certain substances and mixtures EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

P201 Obtain special instructions before use.
P261 Avoid breathing mist or vapours.
P280 Wear protective gloves/ protective clothing.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.
P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

Labelling according to EU Directives 67/548/EEC or 1999/45/EC

SP 1 Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Classification according to Directive 67/548/EEC	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration
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Picoxystrobin (CAS-No.117428-22-5)

	Acute Tox. 4; H332 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 10 - < 20 %
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Cyproconazole (CAS-No.94361-06-5)

	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319 Repr. 2; H361d	>= 5 - < 10 %
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	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	
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Alkyl-naphthalenesulfonic acid, sodium salt/formaldehyde polycondensate (CAS-No.68425-94-5)

	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 0 - < 10 %
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For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures
4.1. Description of first aid measures

- General advice : Never give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
- Inhalation : Move to fresh air. Consult a physician after significant exposure. Artificial respiration and/or oxygen may be necessary.
- Skin contact : Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions see a physician. Wash contaminated clothing before re-use.
- Eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes. If eye irritation persists, consult a specialist.
- Ingestion : Obtain medical attention. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is conscious: Rinse mouth with water.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms : No cases of human intoxication are known and the symptoms of experimental intoxication are not known.

4.3. Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures
5.1. Extinguishing media

- Suitable extinguishing media : Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO₂)
- Extinguishing media which shall not be used for safety reasons : High volume water jet, (contamination risk)

5.2. Special hazards arising from the substance or mixture

- Specific hazards during : Hazardous decomposition products formed under fire conditions. Carbon



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Use only according to our recommendations. Wear personal protective equipment. For personal protection see section 8. Use only clean equipment. Provide adequate ventilation. Do not breathe vapours or spray mist. When opening containers, avoid breathing vapours that may be emanating. Prepare the working solution as given on the label(s) and/or the user instructions. Use prepared working solution as soon as possible - Do not store. To avoid spills during handling keep bottle on a metal tray. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Never return unused material to storage receptacle. Avoid exceeding the given occupational exposure limits (see section 8).

Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

Advice on protection against fire and explosion : 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.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep in properly labelled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

Advice on common storage : No special restrictions on storage with other products.

Other data : Stable under recommended storage conditions.

7.3. Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

If sub-section is empty then no values are applicable.

8.2. Exposure controls

Engineering measures : Ensure adequate ventilation, especially in confined areas. Use sufficient ventilation to keep employee exposure below recommended limits.

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection : Material: Nitrile rubber
Glove thickness: 0,4 - 0,7 mm
Glove length: Gauntlets of 35 cm long or longer.
Wearing time: > 480 min

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Please observe the

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instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Gloves must be inspected prior to use. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Gauntlets of 35 cm long or longer shall be worn over the combination sleeve. Before removing gloves clean them with soap and water.

Skin and body protection : Manufacturing and processing work: Full protective clothing Type 6 (EN 13034) Mixer and loaders must wear: Full protective clothing Type 6 (EN 13034) Rubber apron Nitrile rubber boots (EN 13832-3 / EN ISO 20345).
Spray application - outdoor: Tractor / sprayer with hood: No personal body protection normally required.
Tractor / sprayer without hood: Full protective clothing Type 4 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).
Backpack / knapsack sprayer: Full protective clothing Type 4 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).
Mechanical automatized spray application in closed tunnel: No personal body protection normally required.
When exceptional circumstances require an access to the treated area before the end of re-entry periods, wear full protective clothing Type 6 (EN 13034), nitrile rubber gloves class 3 (EN 374) and nitrile rubber boots (EN 13832-3 / EN ISO 20345).

To optimize the ergonomics it may be recommended to use cotton underwear when wearing some fabrics. Take advice from supplier.

Garment materials that are resistant to both water vapour and air will maximise wearing comfort. Materials should be robust to maintain the integrity and barrier in use.

The permeation resistance of the fabric must be verified independently of the « type » protection recommended, to ensure an appropriate performance level of the material adequate to the corresponding agent and type of exposure.

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated. Only protected handlers may be in the area during application.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing. Keep working clothes separately. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. Remove clothing/PPE immediately if material gets inside. For environmental protection remove and wash all contaminated protective equipment before re-use. Dispose of rinse water in accordance with local and national regulations.

Respiratory protection : Manufacturing and processing work: Half mask with a particle filter FFP2 (EN149)
Mixer and loaders must wear: Half mask with a particle filter FFP2 (EN149)


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Spray application - outdoor: Tractor / sprayer with hood: No personal respiratory protective equipment normally required.
 Tractor / sprayer without hood: Half mask with a particle filter P2 (EN 143)
 Backpack / knapsack sprayer: Half mask with a particle filter P2 (EN 143)
 Mechanical automatized spray application in closed tunnel: No personal respiratory protective equipment normally required.

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties

Form	: liquid
Colour	: off-white
Odour	: sweet
Odour Threshold	: not determined
pH	: 7 at 10 g/l (25 °C)
Melting point/range	: Not applicable
Boiling point/boiling range	: Not available for this mixture.
Flash point	: > 97 °C
Self-Accelerating decomposition temperature (SADT)	: no data available
Flammability (solid, gas)	: The product is not flammable.
Ignition temperature	: no data available
Thermal decomposition	: Not available for this mixture.
Oxidizing properties	: The product is not oxidizing.
Explosive properties	: Not explosive
Lower explosion limit/ Lower flammability limit	: Not available for this mixture.
Upper explosion limit/ upper flammability limit	: Not available for this mixture.
Vapour pressure	: Not available for this mixture.
Density	: 1,12 g/cm ³
Relative density	: no data available
Bulk density	: no data available

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Water solubility	: miscible
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: 455 °C
Solubility in other solvents	: no data available
Viscosity, dynamic	: 109 - 538 mPa.s at 20 °C
Viscosity, kinematic	: no data available
Relative vapour density	: Not available for this mixture.
Evaporation rate	: Not available for this mixture.

9.2. Other information

No other data to be specially mentioned.

SECTION 10: Stability and reactivity

- 10.1. Reactivity** : No hazards to be specially mentioned.
- 10.2. Chemical stability** : The product is chemically stable under recommended conditions of storage, use and temperature.
- 10.3. Possibility of hazardous reactions** : No dangerous reaction known under conditions of normal use. Polymerization will not occur. No decomposition if stored and applied as directed.
- 10.4. Conditions to avoid** : To avoid thermal decomposition, do not overheat. Protect from frost.
- 10.5. Incompatible materials** : No materials to be especially mentioned.
- 10.6. Hazardous decomposition products** : Thermal decomposition can lead to release of irritating gases and vapours.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute oral toxicity

LD50 / Rat female : > 2 000 mg/kg
Method: OECD Test Guideline 425
(Data on the product itself) Information source: Internal study report

Acute inhalation toxicity

LC50 / 4 h Rat : > 7,34 mg/l
Method: OECD Test Guideline 403
(Data on the product itself) Information source: Internal study report

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Acute dermal toxicity

LD50 / Rat : > 4 000 mg/kg
Method: OECD Test Guideline 402
(Data on the product itself) Information source: Internal study report

Skin irritation

Rabbit
Result: No skin irritation
Method: OECD Test Guideline 404
(Data on the product itself) Information source: Internal study report

Eye irritation

Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
(Data on the product itself) Information source: Internal study report

Respiratory or skin sensitisation

mice Local lymph node test
Result: Causes skin sensitization.
Method: OECD Test Guideline 429
(Data on the product itself) Information source: Internal study report

Repeated dose toxicity

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

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

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

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

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

Oral Dog
Exposure time: 1 yr
Reduced body weight gain

Oral Mouse

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Exposure time: 18 Months

Reduced body weight gain, Increased liver weight, Gastrointestinal effects

Reduced body weight gain, Increased liver weight, Gastrointestinal effects, altered blood chemistry

- Cyproconazole

Ingestion Rat

Exposure time: 90 d

No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., Liver effects, Adverse body weight effects

Ingestion multiple species

No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., Liver effects

Mutagenicity assessment

- Picoxystrobin

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

- Cyproconazole

Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity assessment

- Picoxystrobin

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

- Cyproconazole

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

Toxicity to reproduction assessment

- Picoxystrobin

No toxicity to reproduction

- Cyproconazole

Animal testing showed no reproductive toxicity. No effects on or via lactation

Assessment teratogenicity

- Picoxystrobin

Animal testing showed no developmental toxicity.

- Cyproconazole

Ingestion of excessive amounts by pregnant animals resulted in maternal and foetal toxicity.

SECTION 12: Ecological information**12.1. Toxicity**

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Toxicity to fish

LC50 / 96 h / *Oncorhynchus mykiss* (rainbow trout): 0,27 mg/l
Method: OECD Test Guideline 203
(Data on the product itself) Information source: Internal study report

Toxicity to aquatic plants

ErC50 / 72 h / *Pseudokirchneriella subcapitata* (green algae): 0,94 mg/l
Method: OECD Test Guideline 201
(Data on the product itself) Information source: Internal study report

Toxicity to aquatic invertebrates

static test / EC50 / 48 h / *Daphnia magna* (Water flea): 0,058 mg/l
Method: OECD Test Guideline 202
(Data on the product itself) Information source: Internal study report

Toxicity to other organisms

- Picoxystrobin
LC50 / 5 d / *Anas platyrhynchos* (Mallard duck): > 5 200 mg/kg
Method: OECD Test Guideline 205
Dietary
- Cyproconazole
LD50 / 48 h / *Apis mellifera* (bees)
Oral Information source: Data provided by an external source.

LD50 / 48 d / *Apis mellifera* (bees)
Contact Information source: Data provided by an external source.

Chronic toxicity to fish

- Picoxystrobin
NOEC / 33 d / *Cyprinodon variegatus* (sheepshead minnow): 0,021 mg/l
- Cyproconazole
NOEC / 357 d / *Pimephales promelas* (fathead minnow): 0,125 mg/l
Information source: Data provided by an external source.

Chronic toxicity to aquatic Invertebrates

- Picoxystrobin
NOEC / 21 d / *Daphnia magna* (Water flea): 0,008 mg/l
- Cyproconazole
NOEC / 21 d / *Daphnia magna* (Water flea): 0,019 mg/l
Information source: Data provided by an external source.

12.2. Persistence and degradability

Biodegradability

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Not readily biodegradable. Estimation based on data obtained on active ingredient.

12.3. Bioaccumulative potential

Bioaccumulation

Does not bioaccumulate. Estimation based on data obtained on active ingredient.

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

12.4. Mobility in soil

Mobility in soil

Under actual use conditions the product has a low potential of mobility in soil.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). / This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

12.6. Other adverse effects**Additional ecological information**

No other ecological effects to be specially mentioned See product label for additional application instructions relating to environmental precautions.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Product : In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Do not re-use empty containers.

SECTION 14: Transport information**ADR**

- | | |
|-------------------------------------|--|
| 14.1. UN number: | 3082 |
| 14.2. UN proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyproconazole, Picoxystrobin) |
| 14.3. Transport hazard class(es): | 9 |
| 14.4. Packing group: | III |
| 14.5. Environmental hazards: | Environmentally hazardous |
| 14.6. Special precautions for user: | |
| Tunnel restriction code: | (-) |

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- 14.1. UN number: 3082
14.2. UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
(Cyproconazole, Picoxystrobin)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
14.5. Environmental hazards : Environmentally hazardous
14.6. Special precautions for user:
DuPont internal recommendations and transport guidance: ICAO / IATA cargo aircraft only

IMDG

- 14.1. UN number: 3082
14.2. UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
(Cyproconazole, Picoxystrobin)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
14.5. Environmental hazards : Marine pollutant
14.6. Special precautions for user:
No special precautions required.
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Major Accident Hazard Legislation**

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

Other regulations :

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

Take note of Dir 94/33/EC on the protection of young people at work.

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Take note of Directive 96/82/EC on the control of major-accident hazards involving dangerous substances.

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values.

Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.

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SECTION 16: Other information
Full text of H-Statements referred to under section 3.

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Other information professional use

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute toxicity estimate
CAS-No.	Chemical Abstracts Service number
CLP	Classification, Labelling and Packaging
EbC50	Concentration at which 50% reduction of biomass is observed
EC50	Median effective concentration
EN	European Norm
EPA	Environmental Protection Agency
ErC50	Concentration at which a 50% inhibition of growth rate is observed
EyC50	Concentration at which 50 % inhibition of yield is observed
IATA_C	International Air Transport Association (Cargo)
IBC	International Bulk Chemical Code
ICAO	International Civil Aviation Organization
ISO	International Standard Organization
IMDG	International Maritime Dangerous Goods
LC50	Median Lethal Concentration
LD50	Median Lethal Dose
LOEC	Lowest Observed Effect Concentration
LOEL	Lowest observed effect level
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No observed adverse effect level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
OECD	Organisation for Economic Co-operation and Development
OPPTS	Office of Prevention, Pesticides and Toxic Substances
PBT	Persistent, Bioaccumulative and Toxic
STEL	Short term exposure limit
TWA	Time Weighted Average (TWA):
vPvB	very Persistent and very Bioaccumulative

Further information

Before use read DuPont's safety information.

Take notice of the directions of use on the label.

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Note: The information on components provided in sections 11 and 12 of this safety data sheet may in some cases not align with a legally binding classification on the basis of technical progress and availability of new information.

Significant change from previous version is denoted with a double bar.

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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

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