

**DuPont™ Aproach® Prima Fungicide**

Version 2.1

Issue Date : 01/11/2019 Ref. 130000033552
Revision Date : 01/08/2019

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DuPont™ Aproach® Prima Fungicide
Tradename/Synonym : DPX-PZX74
PICOXYSTROBIN: Methyl (αE)-α-(methoxymethylene)-2-[[[6-(trifluoromethyl)-2-pyridinyl]oxy]methyl]benzeneacetate
CYPROCONAZOLE: α-(4-chlorophenyl)-α-(1-cyclopropylethyl)-1H-1,2,4-triazole-1-ethanol
ACANTO® PLUS

Product Use : Fungicide

Restrictions on use :

Do not use product for anything outside of the above specified uses.

Manufacturer/Supplier : DuPont
974 Centre Road
Wilmington, DE 19805, USA

Product Information : 1-800-441-7515 (outside the U.S. 1-302-774-1000)
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency : +1-800-424-9300 (outside the U.S. +1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION**Product hazard category**

Skin sensitisation	Category 1
Carcinogenicity	Category 2
Reproductive toxicity	Category 2

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Label content

Pictogram :



Signal word : Warning

Hazardous warnings : May cause an allergic skin reaction.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.Hazardous prevention measures : Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves.
Use personal protective equipment as required.
IF ON SKIN: Wash with plenty of soap and water.
IF exposed or concerned: Get medical advice/ attention.
If skin irritation or rash occurs: Get medical advice/ attention.
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/ container to an approved waste disposal plant.**Other hazards**

Information presented in Section 2 conforms to the requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory Agencies.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Picoxystrobin	117428-22-5	17.94 %
Cyproconazole	94361-06-5	7.17 %
Other Ingredients		74.89 %

SECTION 4. FIRST AID MEASURES

- General advice : Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
For medical emergencies involving this product, call toll free 1-800-441-3637.
See Label for Additional Precautions and Directions for Use.
Information presented in Section 4 conforms to the requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory Agencies.
- Inhalation : Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
- Skin contact : Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- Eye contact : No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.
- Ingestion : Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. 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.

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Most important symptoms/effects, acute and delayed : No applicable data available.
Protection of first-aiders : No applicable data available.
Notes to physician : No applicable data available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO2)
Unsuitable extinguishing media : High volume water jet, (contamination risk)
Specific hazards : No applicable data available.
Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.
Further information : Evacuate personnel and keep upwind of fire. 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. Do not allow run-off from fire fighting to enter drains or water courses. Control Runoff.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Use personal protective equipment.
Environmental precautions : Prevent material from entering sewers, waterways, or low areas.
Spill Cleanup : Clean-up methods - small spillage Soak up with sawdust, sand, oil dry or other absorbent material. Dispose of in an approved container.
Clean-up methods - large spillage Prevent further leakage or spillage. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Large spills should be collected mechanically (remove by pumping) for disposal. Collect leaking

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liquid in sealable (metal/plastic) containers. Collect and contain contaminated absorbent and dike material for disposal.

Accidental Release Measures : Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

- Handling (Personnel) : Wash hands before breaks and immediately after handling the product. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Handling (Physical Aspects) : Keep away from heat and sources of ignition.
- Dust explosion class : No applicable data available.
Storage : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Keep out of the reach of children.
- Storage period : No applicable data available.
- Storage temperature : No applicable data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering controls : Ensure adequate ventilation. When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS. Information presented in Section 8 conforms to the requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory Agencies.
- Personal protective equipment
Hand protection : Material: Protective gloves

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Skin and body protection : Mixers, loaders, applicators and other handlers who may be exposed to the concentrate must wear:
Long sleeved shirt and long pants
Shoes plus socks
Chemical resistant gloves made of any waterproof material
PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:
Coveralls
Shoes plus socks
Chemical resistant gloves made of any waterproof material

Protective measures : Use this product in accordance with its label. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them. 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.

Exposure Guidelines
Exposure Limit Values

This product does not contain any exposure limits that require disclosure according to OSHA Hazard Communication Standard 2012.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : liquid
Form : liquid
Color : off-white

Odor : sweet

Odor threshold : No applicable data available.

pH : 7 at 10 g/l 25 °C (77 °F)

Melting point/range : No applicable data available.

Boiling point/boiling range : No applicable data available.

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Flash point : > 97 °C

Evaporation rate : No applicable data available.

Flammability (solid, gas) : No applicable data available.

Upper explosion limit : No applicable data available.

Lower explosion limit : No applicable data available.

Vapour Pressure : No applicable data available.

Vapour density : No applicable data available.

Density : 1.12 g/cm³

Specific gravity (Relative density) : No applicable data available.

Water solubility : miscible

Solubility(ies) : No applicable data available.

Partition coefficient: n-octanol/water : No applicable data available.

Auto-ignition temperature : No applicable data available.

Ignition temperature : 455 °C

Decomposition temperature : No applicable data available.

Viscosity, kinematic : No applicable data available.

Viscosity, dynamic : 109 - 538 mPa.s at 20 °C (68 °F)
87.9 - 475 mPa.s at 40 °C (104 °F)

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SECTION 10. STABILITY AND REACTIVITY

Reactivity : No applicable data available.
Chemical stability : Stable at normal temperatures and storage conditions.


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Possibility of hazardous reactions : Polymerization will not occur.
 Conditions to avoid : None reasonably foreseeable.
 Incompatible materials : No materials to be especially mentioned.
 Hazardous decomposition products : Hazardous decomposition products: Carbon dioxide (CO₂), Nitrogen oxides (NO_x)

SECTION 11. TOXICOLOGICAL INFORMATION

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Inhalation 4 h LC50 : > 7.34 mg/l , Rat

Dermal LD50 : > 4,000 mg/kg , Rat

Oral LD50 : > 2,000 mg/kg , Rat

Skin irritation : No skin irritation, Rabbit
 Minimal effects that do not meet the threshold for classification.

Eye irritation : No eye irritation, Rabbit
 Minimal effects that do not meet the threshold for classification.

Sensitisation : May cause sensitisation by skin contact., mice

Further information : Information presented in this Section conforms to the requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory Agencies.

Picoxystrobin

Repeated dose toxicity : 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.


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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

Carcinogenicity : Limited evidence of carcinogenicity in animal studies
 Tumors were observed in laboratory animals, yet are not considered relevant to humans.

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

Reproductive toxicity : No toxicity to reproduction

Teratogenicity : Animal testing showed no developmental toxicity.

Cyproconazole

Repeated dose toxicity : Ingestion
 Rat
 - 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


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Ingestion
 multiple species

-

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

- Carcinogenicity** : Not classifiable as a human carcinogen.
 Overall weight of evidence indicates that the substance is not carcinogenic.
- Mutagenicity** : Animal testing did not show any mutagenic effects.
 Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
- Reproductive toxicity** : Animal testing showed no reproductive toxicity.
 No effects on or via lactation
- Teratogenicity** : Ingestion of excessive amounts by pregnant animals resulted in maternal and foetal toxicity.

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

SECTION 12. ECOLOGICAL INFORMATION
Aquatic Toxicity

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- 96 h LC50 : Oncorhynchus mykiss (rainbow trout) 0.27 mg/l
- 72 h ErC50 : Pseudokirchneriella subcapitata (green algae) 0.21 mg/l
- 48 h EC50 : Daphnia magna (Water flea) 0.058 mg/l

Picoxystrobin

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


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Cyproconazole
 357 d : NOEC Pimephales promelas (fathead minnow) 0.125 mg/l
 21 d : NOEC Daphnia magna (Water flea) 0.019 mg/l

Environmental Fate

Picoxystrobin
 Bioaccumulation : Does not bioaccumulate.

Cyproconazole
 Bioaccumulation : Bioaccumulation is unlikely.

Additional ecological information : Environmental Hazards: This product is toxic to fish. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. See product label for additional application instructions relating to environmental precautions.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product : Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Waste disposal methods - Container : Refer to the product label for instructions. Do not transport if this container is damaged or leaking. In the event of a major spill, fire or other emergency, call 1-800-441-3637 day or night.

Contaminated packaging : No applicable data available.

SECTION 14. TRANSPORT INFORMATION

IATA_C UN number : 3082
 Proper shipping name : Environmentally hazardous substance, liquid, n.o.s. (Cyproconazole, Picoxystrobin)
 Class : 9
 Packing group : III


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IMDG	Labelling No.	: 9
	UN number	: 3082
	Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyproconazole, Picoxystrobin)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9
	Marine pollutant	: yes (Cyproconazole, Picoxystrobin)

Not regulated as a hazardous material by DOT.

SECTION 15. REGULATORY INFORMATION

Other regulations : This Safety Data Sheet is for a pesticide product registered by the US Environmental Protection Agency (USEPA) and various state regulatory agencies, and is therefore also subject to certain requirements under US and state pesticide laws, including the Federal Insecticide Fungicide and Rodenticide Act (FIFRA). These requirements differ from the classification criteria and hazard information required by OSHA for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is information determined by USEPA, and various states.

CAUTION!

Harmful if swallowed. Avoid contact with skin, eyes and clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before re-use. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. This product is toxic to fish. This product is toxic to: Aquatic invertebrates

SARA 313 Regulated Chemical(s) : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

PA Right to Know Regulated Chemical(s) : Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Propane-1,2-diol, Sodium sulphate, Butanone, Sodium hydroxide

EPA Reg. No. : 352-883

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In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.

California Prop. 65 : This product can expose you to substances including Quartz, which is/are known to the State of California to cause cancer, and Ethane-1,2-diol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

	NFPA
Health :	2
Flammability :	1
Reactivity/Physical hazard :	0

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Contact person : DuPont Crop Protection, Wilmington, DE, 19805, Phone: 1-888-638-7668

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 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.