

**Florylpicoxamid Fungicide Technical**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	02/25/2022	400000100584	Date of first issue: 02/25/2022

Corteva Agriscience<sup>™</sup> 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. This Safety Data Sheet adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

**SECTION 1. IDENTIFICATION**

Product name : Florylpicoxamid Fungicide Technical

**Manufacturer or supplier's details****COMPANY IDENTIFICATION**

**Manufacturer/importer** : CORTEVA AGRISCIENCE LLC  
9330 ZIONSVILLE RD  
INDIANAPOLIS, IN, 46268-1053  
UNITED STATES

**Customer Information Number** : 800-992-5994

**E-mail address** : customerinformation@corteva.com

**Emergency telephone** : INFOTRAC (CONTRACT 84224).  
+1 800-992-5994 or +1 317-337-6009

**Recommended use of the chemical and restrictions on use**

Recommended use : Research sample.

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Combustible dust

**GHS label elements**

Signal Word : Warning

Hazard Statements : May form combustible dust concentrations in air.

**Other hazards**

R&D Material – Hazards are not well characterized.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Substance  
Substance name : Florylpicoxamid Fungicide Technical

<sup>™</sup> ® Trademarks of Corteva Agriscience and its affiliated companies.

## Florylpicoxamid Fungicide Technical

Version 1.0      Revision Date: 02/25/2022      SDS Number: 400000100584      Date of last issue: -  
Date of first issue: 02/25/2022

CAS-No. : 1961312-55-9

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Florylpicoxamid	1961312-55-9	95
1-((1,1-bis(4-fluorophenyl)propan-2-yl)oxy)-1-oxopropan-2-aminium chloride	2171323-89-8	$\geq 0.1$ - $< 0.3$

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

- If inhaled : 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.
- In case of skin contact : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- In case of 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.  
Suitable emergency eye wash facility should be immediately available.
- If swallowed : Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor.
- Most important symptoms and effects, both acute and delayed : None known.
- Notes to physician : Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.  
No specific antidote.  
Maintain adequate ventilation and oxygenation of the patient.  
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.

**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Exposure to combustion products may be a hazard to health.  
Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion prod- : Carbon oxides

## Florylpicoxamid Fungicide Technical

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	02/25/2022	400000100584	Date of first issue: 02/25/2022

ucts		Nitrogen oxides (NO <sub>x</sub> )
Specific extinguishing methods	:	Remove undamaged containers from fire area if it is safe to do so. Evacuate area. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Avoid dust formation. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
Environmental precautions	:	If the product contaminates rivers and lakes or drains inform respective authorities. Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. Prevent from entering into soil, ditches, sewers,undwater. See Section 12, Ecological Information.
Methods and materials for containment and cleaning up	:	Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in. Pick up and arrange disposal without creating dust. Recovered material should be stored in a vented container. The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over-pressurization of the container. Keep in suitable, closed containers for disposal. Sweep up or vacuum up spillage and collect in suitable container for disposal. See Section 13, Disposal Considerations, for additional information.

### SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	Handle in accordance with good industrial hygiene and safety practice. Smoking, eating and drinking should be prohibited in the application area. Avoid prolonged or repeated contact with skin. Take care to prevent spills, waste and minimize release to the
-------------------------	---	--

# Florylpicoxamid Fungicide Technical

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	02/25/2022	400000100584	Date of first issue: 02/25/2022

environment.  
Avoid high concentrations of dust in air and accumulation of dust on equipment. An airborne dust of this material can create a dust explosion. To prevent dust explosions employ bonding and grounding for operations capable of generating static electricity. Protect all equipment from explosions by following applicable guidelines  
Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Conditions for safe storage : Store in a closed container.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Keep in properly labeled containers.  
Store in accordance with the particular national regulations.

Materials to avoid : Strong oxidizing agents

Packaging material : Unsuitable material: None known.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Exhaust systems should be designed to move the air away from the source of vapor/aerosol generation and people working at this point.  
Lethal concentrations may exist in areas with poor ventilation.  
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 in enclosed systems or with local exhaust ventilation.

### Personal protective equipment

Respiratory protection : Respiratory protection should be worn when there is a potential to inhale dust, vapours, mist or spray  
In confined or poorly ventilated areas, use an approved self-contained breathing apparatus or positive pressure air line with auxiliary self-contained air supply.

#### Hand protection

Material : Nitrile rubber  
Break through time : > 30 min  
Protective index : Class 2

Remarks : Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Specific properties of gloves such as length, thickness and material barrier shall be adapted to the specific product nature and task. For manufacturing processes refer to site local occupational health guidance and procedures, for farmer use refer to labels and/or gloves manufacturer's, supplier's recommendations.

Eye protection : Use chemical goggles.  
Skin and body protection : Use protective clothing chemically resistant to this material.  
Selection of specific items such as face shield, boots, apron,

**Florylpicoxamid Fungicide Technical**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	02/25/2022	400000100584	Date of first issue: 02/25/2022

---

or full body suit will depend on the task.

---

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	powder
Color	:	off-white
Odor	:	none
Odor Threshold	:	No data available
pH	:	5.4 Concentration: 1 %
Melting point/range	:	195.8 - 203.9 °F / 91.0 - 95.5 °C
Boiling point/boiling range	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form combustible dust concentrations in air.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	< 0.000005 Pa (68 °F / 20 °C) < 0.000009 Pa (77 °F / 25 °C)
Relative vapor density	:	Not applicable
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	4.0 mg/l
Autoignition temperature	:	Not applicable
Explosive properties	:	Not explosive Method: EC Method A.14
Oxidizing properties	:	The substance or mixture is not classified as oxidizing. Method: Regulation (EC) No. 440/2008, Annex, A.17

**SECTION 10. STABILITY AND REACTIVITY**

## Florylpicoxamid Fungicide Technical

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	02/25/2022	400000100584	Date of first issue: 02/25/2022

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	No decomposition if stored and applied as directed. Stable under normal conditions.
Possibility of hazardous reactions	:	Stable under recommended storage conditions. No hazards to be specially mentioned. None known.
Conditions to avoid	:	None known.
Incompatible materials	:	Strong acids Strong bases Strong oxidizing agents
Hazardous decomposition products	:	Carbon oxides Nitrogen oxides (NO <sub>x</sub> )

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity	:	Acute toxicity estimate: 2,632 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 5.29 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: 2,632 mg/kg Method: Calculation method

##### Components:

##### **Florylpicoxamid:**

Acute oral toxicity	:	LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 423 Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute oral toxicity
---------------------	---	--

Acute inhalation toxicity	:	LC50 (Rat, male and female): > 5.48 mg/l Exposure time: 4 h Test atmosphere: dust/mist
---------------------------	---	--

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

##### **1-((1,1-bis(4-fluorophenyl)propan-2-yl)oxy)-1-oxopropan-2-aminium chloride:**

Acute oral toxicity	:	LD50 (Rat): > 1,000 mg/kg Method: OECD Test Guideline 423
---------------------	---	--

Acute inhalation toxicity	:	LC50 (Rat): 0.125 mg/l Exposure time: 4 h Test atmosphere: dust/mist
---------------------------	---	--

## Florylpicoxamid Fungicide Technical

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	02/25/2022	400000100584	Date of first issue: 02/25/2022

---

Method: OECD Test Guideline 436

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

**Respiratory or skin sensitization****Components:****Florylpicoxamid:**

Remarks : For skin sensitization:  
Did not demonstrate the potential for contact allergy in mice.

Remarks : For respiratory sensitization:  
No relevant data found.

**Germ cell mutagenicity****Components:****Florylpicoxamid:**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative.

**Carcinogenicity**

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity****Components:****Florylpicoxamid:**

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction.  
Did not cause birth defects or any other fetal effects in laboratory animals.

**STOT-single exposure****Components:****Florylpicoxamid:**

Assessment : Available data are inadequate to determine single exposure specific target organ toxicity.

## Florylpicoxamid Fungicide Technical

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	02/25/2022	400000100584	Date of first issue: 02/25/2022

**Repeated dose toxicity****Components:****Florylpicoxamid:**

Remarks : No relevant data found.

**Aspiration toxicity****Components:****Florylpicoxamid:**

Based on physical properties, not likely to be an aspiration hazard.

---

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****Florylpicoxamid:**

Toxicity to fish	:	LC50 (Rainbow trout ( <i>Oncorhynchus mykiss</i> )): 0.01 mg/l Exposure time: 96 h Method: OECD Test Guideline 203  LC50 ( <i>Pimephales promelas</i> (fathead minnow)): 0.015 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (water flea <i>Daphnia magna</i> ): 0.059 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EyC50 ( <i>Pseudokirchneriella subcapita</i> ): 1.4 mg/l Exposure time: 72 h Method: OECD Test Guideline 201  NOEC ( <i>Lemna gibba</i> (gibbous duckweed)): 0.152 mg/l Exposure time: 7 d
M-Factor (Acute aquatic toxicity)	:	100
Toxicity to fish (Chronic toxicity)	:	NOEC ( <i>Pimephales promelas</i> (fathead minnow)): 0.0034 mg/l Exposure time: 28 d Method: OECD Test Guideline 210  NOEC ( <i>Cyprinodon variegatus</i> (sheepshead minnow)): 0.0008 mg/l Exposure time: 28 d Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic)	:	NOEC ( <i>Daphnia magna</i> (Water flea)): 0.0137 mg/l Exposure time: 21 d



## Florylpicoxamid Fungicide Technical

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	02/25/2022	400000100584	Date of first issue: 02/25/2022

ic toxicity)

NOEC (saltwater mysid *Mysidopsis bahia*): 0.0008 mg/l  
Exposure time: 28 d

M-Factor (Chronic aquatic toxicity)

: 100

Toxicity to soil dwelling organisms

: LC50 (*Eisenia fetida* (earthworms)): >6.59 mg/kg dry weight (d.w.)

Exposure time: 14 d

End point: mortality

Toxicity to terrestrial organisms

: (*Apis mellifera* (bees)): >109.2

Exposure time: 48 h

End point: Acute oral toxicity

(Apis mellifera (bees)): &gt;100

Exposure time: 48 h

End point: Acute contact toxicity

(Colinus virginianus (Bobwhite quail)): 2,250 mg/kg

Exposure time: 14 d

End point: Acute oral toxicity

**Persistence and degradability****Components:****Florylpicoxamid:**

Biodegradability

: Result: Not readily biodegradable.

Remarks: Not readily biodegraded.

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects****Components:****Florylpicoxamid:**

Results of PBT and vPvB assessment

: This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential

: Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues

: If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must

## Florylpicoxamid Fungicide Technical

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	02/25/2022	400000100584	Date of first issue: 02/25/2022

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.

**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Florylpicoxamid)
Class	:	9
Packing group	:	III
Labels	:	9

**IATA-DGR**

UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (Florylpicoxamid)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passenger aircraft)	:	956

**IMDG-Code**

UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Florylpicoxamid)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes
Remarks	:	Stowage category A

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

Not applicable for product as supplied.

**Domestic regulation****49 CFR**

Not regulated as a dangerous good

**Florylpicoxamid Fungicide Technical**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	02/25/2022	400000100584	Date of first issue: 02/25/2022

**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**

**SARA 311/312 Hazards** : Combustible dust

**SARA 313** : 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.

**The ingredients of this product are reported in the following inventories:**

**TSCA** : Product contains substance(s) not listed on TSCA inventory.

**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

**SECTION 16. OTHER INFORMATION****Information Source and References**

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

**Full text of other abbreviations**

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC

**Florylpicoxamid Fungicide Technical**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	02/25/2022	400000100584	Date of first issue: 02/25/2022

---

- No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance 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

Revision Date : 02/25/2022

Product code: 12485659

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.

US / EN