

Version 3.0 / USA 102000026368

NT 1/10 Revision Date: 08/04/2020 Print Date: 08/22/2022

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

ACCELERON® D-281 FUNGICIDE SEED TREATMENT
81681821
102000026368
264-1169
e substance or mixture and uses advised against
Seed treatment, Fungicide
See product label for restrictions.
Bayer CropScience LP 800 North Lindbergh Blvd. St. Louis, MO 63167 USA
Email: SDSINFO.BCS-NA@bayer.com
1-800-334-7577
1-866-99BAYER (1-866-992-2937)

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified. No health hazards not otherwise classified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Fluoxastrobin	361377-29-9	41.4



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SECTION 4: FIRST AID MEASURES

Description of first aid measures		
General advice	When possible, 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. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.	
Skin contact	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.	
Eye contact	Hold eye 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 eye. Call a physician or poison control center immediately.	
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.	
Most important symptoms and effects, both acute and delayed		
Symptoms	To date no symptoms are known.	
Indication of any immediate medical attention and special treatment needed		
Treatment	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.	

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	
Suitable	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable	High volume water jet
Special hazards arising from the substance or mixture	Dangerous gases are evolved in the event of a fire.
Advice for firefighters	
Special protective equipment for firefighters	Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing. In the event of fire and/or explosion do not breathe fumes.



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Further information	Fight fire from upwind position. Keep out of smoke. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Whenever possible, contain fire-fighting water by diking area with sand or earth.
Flash point	> 100 °C
Auto-ignition temperature	420 °C / 788 °F
Lower explosion limit	No data available
Upper explosion limit	No data available
Explosivity	Not explosive 92/69/EEC, A.14 / OECD 113

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures		
Precautions	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.	
Methods and materials for containment and cleaning up		
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.	
Additional advice	Use personal protective equipment. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal.	
Reference to other sections	Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.	

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

 Advice on safe handling
Use only in area provided with appropriate exhaust ventilation. Handle and open container in a manner as to prevent spillage.
Hygiene measures
Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

Conditions for safe storage, including any incompatibilities



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Requirements for storage areas and containers

Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Fluoxastrobin	361377-29-9	0.42 mg/m3		OES BCS*
		(TWA)		

*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection	When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.
Hand protection	Chemical resistant nitrile rubber gloves
Eye protection	Safety glasses with side-shields
Skin and body protection	Wear long-sleeved shirt and long pants and shoes plus socks.
General protective measures	Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form	suspension
Colour	white
Odour	mild
Odour Threshold	No data available
рН	5.0 - 8.0 (100 %) (23 °C)
Melting point/range	No data available
Boiling Point	
	No data available

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Flash point	> 100 °C
Flammability	No data available
Auto-ignition temperature	420 °C
Minimum ignition energy	Not applicable
Self-accelarating decomposition temperature (SADT)	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapour pressure	No data available
Evaporation rate	No data available
Relative vapour density	No data available
Relative density	No data available
Density	1.16 g/cm³ (20 °C)
Water solubility	dispersible
Partition coefficient: n- octanol/water	Fluoxastrobin: log Pow: 2.86 (20 °C)
Viscosity, dynamic	160 - 280 mPa.s (20 °C) Velocity gradient 20 /s 60 - 120 mPa.s (20 °C) Velocity gradient 100 /s
Viscosity, kinematic	No data available
Impact sensitivity	Not impact sensitive.
Oxidizing properties	No oxidizing properties
Explosivity	Not explosive 92/69/EEC, A.14 / OECD 113
Other information	Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	
Thermal decomposition	Stable under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.



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Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	No incompatible materials known.
Hazardous decomposition products	No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes	Skin contact, Eye contact, Ingestion, Inhalation		
Immediate Effects Eye	Not expected to produce significant adverse effects when recommended use instructions are followed.		
Skin	Not expected to produce significant adverse effects when recommended use instructions are followed.		
Ingestion	Not expected to produce significant adverse effects when recommended use instructions are followed.		
Inhalation	Not expected to produce significant adverse effects when recommended use instructions are followed.		
Information on toxicological effects			
Acute oral toxicity	LD50 (female Rat) >5,000 mg/kg		
Acute inhalation toxicity	LC50 (male/female combined Rat) >5.15 mg/l Exposure time: 4 h Determined in the form of a respirable aerosol.		
Acute dermal toxicity	LD50 (male/female combined Rat) > 5,000 mg/kg		
Skin corrosion/irritation	No skin irritation (Rabbit)		
Serious eye damage/eye irritation	No eye irritation (Rabbit)		
Respiratory or skin sensitisation	Skin: Non-sensitizing. (Mouse) OECD Test Guideline 429, local lymph node assay (LLNA)		

Assessment STOT Specific target organ toxicity – single exposure

Fluoxastrobin: Based on available data, the classification criteria are not met.

Assessment STOT Specific target organ toxicity - repeated exposure

Fluoxastrobin did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity

Fluoxastrobin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Fluoxastrobin was not carcinogenic in lifetime feeding studies in rats and mice.

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None.

NTP

None.

IARC

None.

OSHA

None.

Assessment toxicity to reproduction

Fluoxastrobin caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Fluoxastrobin is related to parental toxicity.

Assessment developmental toxicity

Fluoxastrobin did not cause developmental toxicity in rats. Fluoxastrobin caused developmental toxicity in rabbits only at dose levels toxic to the dams. The developmental effects seen with Fluoxastrobin are related to maternal toxicity.

Aspiration hazard

Based on available data, the classification criteria are not met.

Further information

Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the active ingredient(s).

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)) 0.44 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient fluoxastrobin.	
Toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)) 0.48 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient fluoxastrobin.	
Toxicity to aquatic plants	ErC50 (Raphidocelis subcapitata (freshwater green alga)) 2.10 mg/l Growth rate; Exposure time: 72 h The value mentioned relates to the active ingredient fluoxastrobin.	
Biodegradability	Fluoxastrobin: Not rapidly biodegradable	
Кос	Fluoxastrobin: Koc: 424 - 1582	
Bioaccumulation	Fluoxastrobin: Bioconcentration factor (BCF) 52 Does not bioaccumulate.	
Mobility in soil	Fluoxastrobin: Slightly mobile in soils	
Results of PBT and vPvB assessment		



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PBT and vPvB assessment	Fluoxastrobin: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
Additional ecological information	No other effects to be mentioned.
Environmental precautions	Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods	
Product	Dispose in accordance with all local, state/provincial and federal regulations.
Contaminated packaging	Do not re-use empty containers. Consult state and local regulations regarding the proper disposal of container. Follow advice on product label and/or leaflet.
RCRA Information	Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

SECTION 14: TRANSPORT INFORMATION

49CFR	Not dangerous goods / not hazardous material	
IMDG UN number Class Packaging group Marine pollutant Proper shipping name	3082 9 III YES ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUOXASTROBIN SOLUTION)	
IATA UN number Class Packaging group Environm. Hazardous Mark Proper shipping name	3082 9 III YES ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUOXASTROBIN SOLUTION)	



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This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification:

CHEMICALS, N.O.I.

SECTION 15: REGULATORY INFORMATION

EPA Registration No. 264-1169 **US Federal Regulations TSCA** list Water 7732-18-5 1,2-Propanediol 57-55-6 Alkylarylpolyglycol ether 104376-75-2 US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D) No export notification needs to be made. SARA Title III - Section 302 - Notification and Information Not applicable. SARA Title III - Section 313 - Toxic Chemical Release Reporting None.

US States Regulatory Reporting CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

US State Right-To-Know Ingredients 1,2-Propanediol	57-55-6	MN, RI
Environmental CERCLA None. Clean Water Section 307(a)(1) None. Safe Drinking Water Act Maximum Con None.	ntaminant Levels	5

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

49CFRCode of Federal Regulations, Title 49ACGIHUS. ACGIH Threshold Limit ValuesATEAcute toxicity estimate

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CAS-Nr. CERCLA EINECS ELINCS IARC IATA IMDG N.O.S. NTP OECD TDG TWA UN WHO	Comprehensive E European inventor European list of no International Agen International Air Tr International Marit Not otherwise spe US. National Toxic Organization for E Transportation of I	Chemical Abstracts Service number Comprehensive Environmental Response, Compensation, and Liability Act European inventory of existing commercial substances European list of notified chemical substances International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Not otherwise specified US. National Toxicology Program (NTP) Report on Carcinogens Organization for Economic Co-operation and Development Transportation of Dangerous Goods Time weighted average		
NFPA 704 (National Fire Protection Association):				
Health - 1 F	lammability - 1	Instability - 0	Others - none	
•		System, based on the Physical Hazard - 0	Third Edition Ratings Guide) PPE -	
0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard				

Reason for Revision: The following sections have been revised: Section 8: Exposure Controls / Personal Protection. Section 12. Ecological information. Section 15: Regulatory information. Reviewed and updated for general editorial purposes.

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