

VALENT BIOSCIENCES.

SAFETY DATA SHEET

Accede Plant Growth Regulator Liquid Concentrate

SDS# VBC-0218 Revision 5

ISSUED 08/24/21

[Classification according to OSHA; 29 CFR \S 1910.1200, (3/12/2012)]

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1 Product Identifier

MATERIAL NAME: Accede

Synonyms: VBC-30445 **EPA Reg No.:** 73049-517

Code Number: N/A List Number: N/A

Chemical Family: Plant growth regulator

Substance Registration Number(s)[REACH]: N/A

1.2 Relevant Identified Uses and Uses Advised Against

Identified Uses: Pesticide

Uses Advised Against: It is a violation of Federal law to use this product in a manner inconsistent

with its labeling.

1.3 Details of the supplier of the Safety Data Sheet

Supplied By: Valent BioSciences LLC

1910 Innovation Way, Suite 100 Libertyville, Illinois 60048

1.4 EMERGENCY TELEPHONE NUMBERS

Emergency Health or Spill:

Outside the United States: 651-632-6184 Within the United States: 877-315-9819

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Hazardous to the aquatic environment, Acute Category 1 (Algae)

2.2 Labeling Elements Symbol(s)





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Signal Word

WARNING

Hazard Statement(s)

Hazardous to the aquatic environment (Algae), Acute Category 2

2.3 Precautionary Statement:

Prevention

Wash hands and face thoroughly after handling

Wear protective gloves

Wear eye/face protection

Avoid breathing dust/fume/vapors/spray

Use only outdoors or in a well-ventilated area

Response

IF ON SKIN: Wash with plenty of water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/ attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a poison center/doctor if you feel unwell.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national regulations.

2.4 Other Hazards

None identified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Component Name	Percent w/w	Percent w/v
22059-21-8	1-aminocyclopropanecarboxylic acid	10	11.2%
Trade	Other ingredients	90	To 100%
Secret	-		



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4. FIRST AID MEASURES

4.1 Description of First Aid Measures

GENERAL: In all cases of doubt, seek medical attention.

EYES: Remove from source of exposure. Flush with copious amounts of water. Remove contact lenses, if present and easy to do, after the first 5 minutes, then continue rinsing. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic /supportive care as necessary.

SKIN: Remove from source of exposure. Take off contaminated clothing. Flush with copious amounts of water. If irritation occurs or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

INGESTION: Remove from source of exposure. Move person to fresh air. Do NOT induce vomiting. If signs of toxicity occur, seek medical attention. Provide symptomatic /supportive care as necessary.

INHALATION: Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. If person is not breathing, call 911, then give artificial respiration.

4.2 Most important Symptoms and Effects, both Acute and Delayed Acute

Skin irritation, eye irritation and may cause respiratory irritation

Delayed

No information on significant adverse effects

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically and supportively

5. FIRE FIGHTING PROCEDURES

5.1 Extinguisher Media

Suitable Extinguisher Media

Dry chemical, water spray, foam or carbon dioxide. Use appropriate medium for the underlying cause of the fire.

Unsuitable Extinguisher Media

None known

5.2 Specific Hazards Arising from the Chemical

Thermal decomposition products





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Carbon oxides, nitrogen oxides, calcium oxides, hydrogen chloride gas

5.3 Advice to Firefighters

Protective Equipment and precautions for firefighters

Fire fighter should wear full-face, self-contained breathing apparatus and protective clothing. Fire fighters should avoid inhaling combustion products. See Section 8 (Exposure Controls / Personal Protection)

Fire & Explosive hazard

Not expected to be flammable.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use in a well-ventilated area. Avoid breathing vapors, mist, dust or gas. Wear eye protection appropriate to handling activities. Wear gloves. See personal protection as recommended in Section 8.

6.2 Environmental Precautions

Keep out of drains, sewers, ditches and waterways. Avoid runoff to waterways and sewers.

6.3 Methods and Materials for Containment and Cleaning Up

Ventilate area. Wear appropriate personal protective equipment. Absorb spill with inert solids such as clay or vermiculite, and place into appropriate container for disposal. Do not flush to sewer.

6.4 Reference to Other Sections

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations. See Section 13 for Disposal Considerations.

US Regulations may require reporting spills of hazardous materials: See Section 15: REGULATORY INFORMATION for details on reportable quantities, if any.

7. HANDLING AND STORAGE

7.1 Precautions for Safe handling

Avoid contact with skin and eyes. Use in a well-ventilated area. For respiratory protection wear a dust mask. Wash thoroughly after handling. Do not eat, drink, chew gum or smoke while working with product, obey reasonable safety precautions and practice good housekeeping.

7.2 Conditions for Safe Storage, Including Incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Protect against physical damage.

Incompatibilities





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None Known

7.3 Specific End Use(s)

Plant growth regulator

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Component Exposure Limits

Not known

Derived No Effect Levels (DNELs)

No DNELs available

Predicted No Effect Concentrations (PNECs)

No PNECs available

8.2 Exposure Controls

Appropriate Engineering Controls

Provide general ventilation. Where adequate general ventilation is unavailable use local exhaust ventilation, or other engineering controls.

SKIN PROTECTION:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wear protective clothing, including boots and gloves. Wear a dust mask. Wash thoroughly with soap and water after handling.

EYE PROTECTION:

Wear goggles, safety glasses with side shields or full-face shield when splashing or spraying of materials is likely.

RESPIRATORY PROTECTION:

Where respiratory protection is warranted, use dust/mist filtering respirator (MSHA/NIOSH approved number prefix TC-21C or a NIOSH approved respirator with any N, P, R or HE filter). Wash thoroughly with soap and water after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Evaporation Rate	Not Determined
Color	Golden amber	Flammability	Not Determined
Odor	Faint and unpleasant,	Upper/Lower	Not Determined
	sulfur odor	Flammability limit	
Odor Threshold	Not Determined	Upper/Lower Explosive	Not Determined
		Limit	



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рН	5.6	Vapor Pressure	Not Determined
Melting point	Not Determined	Vapor Density	Not Determined
Freezing Point	Not Determined	Relative Density	Not Determined
Boiling Point	Not Determined	Solubility	Not Determined
Boiling Range	Not Determined	Octanol/Water Partition	Not Determined
		Coefficient	
Flash Point	Not Determined	Auto-ignition	Not Determined
		temperature	
Viscosity	Not Determined	Decomposition	Not Determined
		Temperature	

10. CHEMICAL STABILITY AND REACTIVITY

10.1 Reactivity

Material does not pose a significant reactivity hazard.

10.2 Chemical Stability

Stable under ordinary conditions of use and storage.

10.3 Possibility of Hazardous Reactions

No data available

10.4 Conditions to Avoid

None known

10.5 Incompatible Materials

Strong oxidizing agents

10.6 Hazardous Decomposition Products

Carbon oxides and unidentified organic compounds.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

ACUTE EFFECTS Product Toxicology Studies

ORAL TOXICITY: LD_{50} (rat)= >5,000 mg/kg body weight DERMAL TOXICITY: LD_{50} (rat) = >5,000 mg/kg body weight

INHALATION TOXICITY: LD50 (rat) =>5.11 mg/kg
DERMAL IRRITATION: Slightly irritating to the skin
OCULAR IRRITATION: Minimally irritating to the eye
DERMAL SENSITIZATION: Not considered a dermal sensitizer

MUTAGENICITY INFORMATION: Testing has not shown no mutagenicity.

CARCINOGENICITY INFORMATION: Components of this product are not listed as carcinogenic by





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NTP, IARC or OSHA.

DEVELOPMENTAL/REPRODUCTIVE TOXICITY: This material has not presented developmental or reproductive toxicity

SPECIFIC TARGET ORGAN TOXICITY (single exposure):

ASPIRATION HAZARD: No data available REPEAT DOSE STUDIES: No data available

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Based on TGAI

Fish: 96-Hour LC50 >117 mg/L Bird: Dietary LC50 = 5106 ppm

Invertebrates: 48-hour Daphnia EC50 >105 mg/L

12.2 Persistence and Degradability

Soil: DT50 < 4 days.

12.3 Bioaccumulation potential

No data available

12.4 Mobility in Soil

No data available

12.5 Results of PBT and vPvB assessment

Assessments not performed

12.6 Other adverse effects

None known

13. DISPOSAL CONSIDERATIONS

13.1 Waste Disposal Methods

Dispose of product in accordance with federal, state, provincial, and local regulations. Prevent contamination of environment by wastes.

US EPA WASTE NUMBER & DESCRIPTIONS:

There is no applicable EPA waste number. This product, if discarded, is not expected to be a characteristic or listed hazardous waste.



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14. TRANSPORTATION INFORMATION

<u>DOT</u> STATUS: Not regulated for domestic ground transport by US DOT

UN PROPER SHIPPING NAME: N/A REMARKS: N/A

IATA/ICA0 STATUS: Not Regulated

PROPER SHIPPING NAME: N/A REMARKS: N/A

IMDG STATUS: Not Regulated

PROPER SHIPPING NAME: N/A REMARKS: N/A

15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations / Specific Legislation

TSCA STATUS: Exempt

CERCLA STATUS: Not regulated as hazardous

SARA STATUS: Acute: No Chronic: No Fire: No CDT: No

RCRA STATUS: Not regulated as hazardous

State Right-To-Know:

Pennsylvania Right To Know Components

1-Amino-1-cyclopropanecarboxylic acid CAS-No. 22059-21-8 Calcium Chloride CAS-No.: 10043-52-4 Edetic Acid CAS-No: 60-00-4

New Jersey Right To Know Components

1-Amino-1-cyclopropanecarboxylic acid CAS-No. 22059-21-8 Calcium Chloride CAS-No.: 10043-52-4 Edetic Acid CAS-No: 60-00-4

Consult applicable national, state provincial or local laws to determine regulations, laws or ordinances which may be applicable.

OSHA HAZARD COMMUNICATION STANDARD: Not defined by the OSHA Hazard Communication Standard, 29 CFR

15.2 EPA Pesticide Regulations

EPA Registration Number: 73049-517

EPA Pesticide Label signal word: CAUTION





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Product must have EPA Approved Pesticide Label attached to or accompanying all containers.

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions and limitations for its use.

KEEP OUT OF REACH OF CHILDREN CAUTION

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing. Wash 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 reuse.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Store between 45 and 80°F. The product, once opened, should not be stored below 55°F.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. If recycling is not available puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

16. OTHER INFORMATION

NFPA Hazard Ratings HMIS Hazard Ratings

Health: N/D Health: N/D 0 = Minimal Flammability: N/D Flammability: N/D 1 = Slight Instability: N/D Instability: N/D 2 = Moderate



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3 = Serious 4 = Extreme

REASON FOR ISSUE: Add registration number – EPA regulatory indications

APPROVAL DATE: 08/24/21 SUPERSEDES DATE: 09/17/20

LEGEND: N/A = Not Applicable N/D = Not Determined

N/L = Not Listed L = Listed
C = Ceiling S = Short-term
(R) = Registered Trademark of Valent BioSciences LLC
(TM) = Registered Trademark of Valent BioSciences LLC

The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, Valent BioSciences LLC and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, neither Valent BioSciences LLC nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. It is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Valent BioSciences LLC to confirm that you have the most current product label and SDS.

This Safety Data Sheet (SDS) may provide more information than the product label but does not replace or modify the product labeling (attached to and accompanying the product container). The product SDS and the product label both provide consistent and important health, safety, and environmental information as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). This requirement covers employers, employees, emergency responders, users and others handling the product. All necessary hazard classification and appropriate precautionary, use, storage, and disposal information is set forth on the labeling and the SDS.



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