

Accede SG Plant Growth Regulator**SDS# VBC-0969 Revision 0****ISSUED 10/4/23**

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

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**1.1 Product Identifier****MATERIAL NAME:** Accede SG Plant Growth Regulator**Synonyms:** VBC-30452**PMRA Reg No.:** 34861**Code Number:** None**1.2 Relevant Identified Uses and Uses Advised Against****Identified Uses:** Plant Growth Regulator**Uses Advised Against:** None**1.3 Details of the supplier of the Safety Data Sheet****Supplied By:** Valent BioSciences LLC

1910 Innovation Way, Suite 100

Libertyville, Illinois 60048

Canadian Agent: Valent Canada Inc
201-230 Hanlon Creek Blvd.
Guelph, Ontario N1C 0A1**1.4 Emergency Health or Spill:**

VBC Product Information: (800)323-9597

Health Emergency (24 hours): 1-877-315-9819

US Transportation (24 hr): CHEMTREC: 800-424-9300

International Transportation (24 hr): 703-741-5970

2. HAZARDS IDENTIFICATION**2.1 Classification of the Substance or Mixture**

Skin irritation (Category 2)

Eye irritation (Category 2A)

Specific target organ toxicity - single exposure (Category 3), Respiratory system

Combustible Dust

2.2 Labeling Elements**Symbol(s)**



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Signal Word

WARNING

Hazard Statement(s)

Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation
May form combustible dust concentrations in air

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.

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
22059-21-8	1-aminocyclopropanecarboxylic acid, 95%	40.58 (40.0)
Other ingredients	Other ingredients	59.42



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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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Not considered flammable but will burn at high temperatures. Use extinguishing media appropriate for surrounding fire.



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Unsuitable Extinguisher Media

None known

5.2 Specific Hazards Arising from the substance or mixture

Fire hazard: Combustible Dust. Dust explosion hazard in air.

Explosion hazard: Dust clouds can be explosive. Avoid dust clouds in combination with static electricity.

Combustible Dust Hazard: May form combustible dust concentrations in air under unusual conditions. Unusual Fire and Explosion Hazards may exist for combustible dusts of certain particle size and moisture content when suspended in air at certain concentrations and subjected to an ignition source.

Reactivity: Stable at ambient temperature and under normal conditions of use.

Thermal decomposition products: Carbon oxides, nitrogen oxides

5.3 Advice to Firefighters

Protective Equipment and precautions for firefighters

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

Fire & Explosive hazard

Not considered flammable but will burn at high temperatures.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use in a well-ventilated area. Avoid dust formation. Avoid breathing dust. For respiratory protection wear a dust mask. Wear eye protection appropriate to handling activities. Wear impervious 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. Recover product being careful not to create dust 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.



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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. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. 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

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

Incompatibilities

None Known

7.3 Specific End Use(s)

Plant Growth Regulator

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Component Exposure Limits

None

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. Wear gloves made of impervious material. Wash thoroughly with soap and

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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:

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Wash thoroughly with soap and water after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid, granular	Evaporation Rate	Not Determined
Color	Off-White	Flammability	Not Determined
Odor	Not Determined	Upper/Lower Flammability limit	Not Determined
Odor Threshold	Not Determined	Degree of dissolution	
		Residue after 5 min	0.14%
		Residue after 24 hours	0.02%
pH	5.2	Vapor Pressure	Not Determined
Melting point	Not Determined	Vapor Density	Not Determined
Freezing Point	Not Determined	Relative Density	
		Pour density	0.45 g/ml
		Tap density	0.50g/ml
Boiling Point	Not Determined	Solubility	Not Determined
Boiling Range	Not Determined	Persistent foaming	
		0.25 g/L	18 ml after 1 min
		1.5 g/L	27 ml after 1 min
Flash Point	Not Determined	Auto-ignition temperature	Not Determined
Viscosity	Not Determined	Dustiness	Nearly dust free

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. Spontaneous reaction not possible.

10.3 Possibility of Hazardous Reactions

Does not undergo hazardous polymerization

10.4 Conditions to Avoid



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None known

10.5 Incompatible Materials

Strong oxidizing agents

10.6 Hazardous Decomposition Products

No data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

LIKELY ROUTES OF EXPOSURE

Eye Contact: Possible

Skin Contact: Possible

Ingestion: No

Inhalation: Possible

ACUTE EFFECTS Product Toxicology Studies

ORAL TOXICITY: LC50 > 5000 mg/kg female rats

DERMAL TOXICITY: LC50 > 5000 mg/kg male and female rats

INHALATION TOXICITY: LC50 > 5.10 mg/L

DERMAL IRRITATION: Non-irritating to the skin

OCULAR IRRITATION: No ocular irritation

DERMAL SENSITIZATION: Not a contact dermal sensitizer

MUTAGENICITY INFORMATION: Components of this product are not listed as mutagens.

CARCINOGENICITY INFORMATION: Components of this product are not listed as carcinogenic by NTP, IARC or OSHA.

DEVELOPMENTAL/REPRODUCTIVE TOXICITY: This material is not pathogenic

SPECIFIC TARGET ORGAN TOXICITY (single exposure): Inhalation - May cause respiratory irritation.

ASPIRATION HAZARD: No data available

REPEAT DOSE STUDIES: No data available

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Fish: No data available

Bird: No data available

Invertebrates: No data available

12.2 Persistence and Degradability



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No data available

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.

14. TRANSPORTATION INFORMATION

DOT 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



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

15.2 PMRA Pesticide Regulations

PMRA Registration Number: 34861

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

This chemical is a pesticide product registered by the PMRA 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**

ENVIRONMENTAL HAZARDS

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 disposing of equipment washwaters or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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.



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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

Health: 2
Flammability: 0
Instability: 0

HMIS Hazard Ratings

Health: 2
Flammability: 0
Instability: 0

0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Extreme

REASON FOR ISSUE: Date format change

APPROVAL DATE: 02/02/23

SUPERSEDES DATE: 01/31/23

LEGEND: N/A = Not Applicable

N/L = Not Listed

C = Ceiling

(R) = Registered Trademark of Valent BioSciences LLC

(TM) = Registered Trademark of Valent BioSciences LLC

N/D = Not Determined

L = Listed

S = Short-term

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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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