



SAFETY DATA SHEET

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Accede SG Plant Growth Regulator

SDS# VBC-0270 Revision 3

ISSUED 02/02/23

[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

Synonyms: VBC-30452

EPA Reg No.: 73049-530

Code Number: N/A

List Number: N/A

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

1.2 Relevant Identified Uses and Uses Advised Against

Identified Uses:

Uses Advised Against:

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 NUMBER

VBC Product Information: 800-323-9597

Health Emergency (24 hr): 877-315-9819

U.S. Transportation (24 hr): CHEMTREC: 800-424-9300

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

2. HAZARDS IDENTIFICATION

EXPERIMENTAL FORMULATION – NOT CURRENTLY TESTED
USE APPROPRIATE CAUTION

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.

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3. COMPOSITION/INFORMATION ON INGREDIENTS**EXPERIMENTAL FORMULATION – NOT CURRENTLY TESTED**
USE APPROPRIATE CAUTION

CAS #	Component Name	Percent
22059-21-8	1-aminocyclopropanecarboxylic acid, 95%	42.1 (40.0)
64044-51-5	Lactose monohydrate	54.3
Trade Secret	Other ingredients	3.6

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

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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.

Unsuitable Extinguisher Media

None known

5.2 Specific Hazards Arising from the Chemical

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

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

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**EXPERIMENTAL FORMULATION – NOT CURRENTLY TESTED**
USE APPROPRIATE CAUTION**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.

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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.

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**EXPERIMENTAL FORMULATION – NOT CURRENTLY TESTED**
USE APPROPRIATE CAUTION**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

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

Incompatibilities

None Known

7.3 Specific End Use(s)

Experimental Use

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control Parameters**

Component Exposure Limits

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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 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 Residue after 24 hours	0.14% 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 Tap density	0.45 g/ml 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

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		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**EXPERIMENTAL FORMULATION – NOT CURRENTLY TESTED**
USE APPROPRIATE CAUTION**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

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

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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**EXPERIMENTAL FORMULATION – NOT CURRENTLY TESTED**
USE APPROPRIATE CAUTION**12.1 Ecotoxicity**

Fish: No data available
Bird: No data available
Invertebrates: No data available

12.2 Persistence and Degradability

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.



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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.

14. TRANSPORTATION INFORMATION

DOT STATUS: Not regulated for domestic ground transport by US DOT
UN PROPER SHIPPING NAME: N/A
REMARKS: N/A

IATA/ICAO 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

New Jersey Right To Know Components

1-Amino-1-cyclopropanecarboxylic acid CAS-No. 22059-21-8

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: 73049-530

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

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.

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



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Health:	2	Health:	2	0 = Minimal
Flammability:	0	Flammability:	0	1 = Slight
Instability:	0	Instability:	0	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

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.

