



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Safety data sheet number VBS-0270

Revision Number 5

Accede SG Plant Growth Regulator

Revision date 18-Jun-2025

1. Identification

Product identifier

Product Name Accede SG Plant Growth Regulator
Synonyms VBC-30452
Registration Number(s) 73049-530

Recommended use of the chemical and restrictions on use

Recommended use Plant Growth Regulator
Restrictions on use It is a violation of Federal Law to use this product in a manner inconsistent with its FIFRA pesticide labeling.
UN number or ID number UN3077

Other means of identification

Details of the supplier of the safety data sheet

Manufacturer Address

Valent BioSciences LLC
1910 Innovation Way, Suite 100
Libertyville, Illinois 60048

Emergency telephone number

Emergency Telephone Valent BioSciences LLC, Product Information: (800)323-9597
Health Emergency (24 hr): 1-877-315-9819
US Transportation (24 hr): CHEMTREC: 800-424-9300
International Transportation (24 hr): 703-741-5970

2. Hazard(s) identification

Classification

Hazardous to the aquatic environment - acute

Category 1

Hazards not otherwise classified (HNOC)

Not applicable.

Label elements



Warning

Hazard statements

Very toxic to aquatic life.

Precautionary Statements - Prevention

Avoid release to the environment.

Collect spillage.

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

Other information

No information available.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No.	Weight-%	Trade secret
1-Aminocyclopropane-1-carboxylic acid	22059-21-8	40	

4. First-aid measures

Description of first aid measures

Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water.
Ingestion	Rinse mouth.

Most important symptoms and effects, both acute and delayed

Symptoms	No information available.
Effects of Exposure	No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical No information available.

Explosion data
Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls/personal protection

Control Parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Showers
 Eyewash stations
 Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection No special protective equipment required.

Skin and body protection No special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid
Appearance No information available
Color Off-white
Odor None
Odor threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	None known
pH (as aqueous solution)	4.9 - 5.5	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

Other information

Explosive properties No information available
Oxidizing properties No information available
Softening point No information available

Molecular weight	No information available
VOC content	No information available
Liquid Density	No information available
Bulk density	No information available

10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	No known effect.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	No information available.
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<u>Acute toxicity</u>	.
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Numerical measures of toxicity

Oral LD50
Dermal LD50
Inhalation LC50
Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1-Aminocyclopropane-1-carboxylic acid 22059-21-8	>5,000 mg/kg bw (rat)	>5000 mg/kg bw (rat)	>5.10 mg/L 4 hrs (rat)

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Serious eye damage/eye irritation	No information available.
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Carcinogenicity No information available.

12. Ecological information

Ecotoxicity Very toxic to aquatic life.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1-Aminocyclopropane-1-carboxylic acid 22059-21-8	LOEC 0.831 mg/L (Lemna gibba)	LC50 >120 mg/L (Rainbow trout)	-	EC50 150 mg/L (Daphnia)

Persistence and degradability No information available.

Bioaccumulation There is no data for this product.

Other adverse effects No information available.

13. Disposal considerations

Disposal methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. Transport information

DOT

UN number or ID number	UN3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s. (1-Aminocyclopropane-1-carboxylic acid)
Transport hazard class(es)	9
Packing group	III
Technical Name	1-Aminocyclopropane-1-carboxylic acid
Special Provisions	8, 146, 335, 384, 441, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33
DOT Marine Pollutant	M

Marine pollutant
Description 1-Aminocyclopropane-1-carboxylic acid
UN3077, Environmentally hazardous substance, solid, n.o.s.
(1-Aminocyclopropane-1-carboxylic acid), 9, III, Marine pollutant

ICAO (air)

UN number or ID number UN3077
UN proper shipping name Environmentally hazardous substance, solid, n.o.s.
Transport hazard class(es) 9
Packing group III
Description UN3077, Environmentally hazardous substance, solid, n.o.s.
(1-Aminocyclopropane-1-carboxylic acid), 9, III
Special Provisions A97, A158, A179, A197, A215

IATA

UN number or ID number UN3077
UN proper shipping name Environmentally hazardous substance, solid, n.o.s. (1-Aminocyclopropane-1-carboxylic acid)
Transport hazard class(es) 9
Packing group III
Technical Name 1-Aminocyclopropane-1-carboxylic acid
Description UN3077, Environmentally hazardous substance, solid, n.o.s.
(1-Aminocyclopropane-1-carboxylic acid), 9, III
Special Provisions A97, A158, A179, A197, A215
ERG Code 9L

IMDG

UN number or ID number UN3077
UN proper shipping name Environmentally hazardous substance, solid, n.o.s.
Transport hazard class(es) 9
Packing group III
EmS-No. F-A, S-F
Special Provisions 274, 335, 966, 967, 969
Description UN3077, Environmentally hazardous substance, solid, n.o.s.
(1-Aminocyclopropane-1-carboxylic acid), 9, III, Marine pollutant

15. Regulatory information

International Inventories

TSCA	Contact supplier for inventory compliance status.
DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIoC	Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number 73049-530

EPA Pesticide Label

CAUTION

FIRST AID--Call a poison control center or doctor for treatment advice. -- Do not induce vomiting unless told to do so by a poison control center or doctor-- Do not give anything by mouth to an unconscious personHOT LINE NUMBERHave the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-892-0099 (24 hours) for emergency medical treatment and/or transport emergency information. For all other information, call 1-800-6-Valent.

Difference between SDS and EPA pesticide label

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.

16. Other information

NFPA HMIS

Health hazards 0
Health hazards 0

Flammability 0
Flammability 0

Instability 0
Physical hazards 0

Special hazards -
Personal protection X

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation
+	Sensitizers		

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGl(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Revision date 18-Jun-2025
Revision Note No information available.

Disclaimer

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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.

End of Safety Data Sheet