

ProTone SG

MSDS# BIO-0419 Rev. 5

ISSUED 3/11/10

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL NAME: ProTone SG (S-Absciscic Acid)

EPA Reg.No.: 73049-461, 73049-EUP-4, 73049-EUP-7

Code Number: VBC-30051

List Number: N/A

MANUFACTURER: Valent BioSciences Corporation
870 Technology Way, Suite 100
Libertyville, Illinois 60048

EMERGENCY TELEPHONE NUMBERS

Emergency Health or Spill:

Outside the United States: 651-632-6184

Within the United States: 877-315-9819

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME: S-Absciscic acid

CONCENTRATION: 20.0%

CAS/RTECS NUMBERS: N/A

OSHA-PEL 8HR TWA: N/L

STEL: N/L

CEILING: N/L

ACGIH-TLV 8HR TWA: N/L

STEL: N/L

CEILING: N/L

OTHER 8HR TWA: N/A

LIMITS CEILING: N/A

INGREDIENT NAME: Inert Ingredients - identity withheld as Trade Secret
Information

CONCENTRATION: 80.0%

CAS/RTECS NUMBERS: N/A / N/A

OSHA-PEL 8HR TWA: N/L

STEL: N/L

CEILING: N/L

ACGIH-TLV 8HR TWA: N/L

STEL: N/L

CEILING: N/L

OTHER 8HR TWA: N/A

LIMITS STEL: N/A

CEILING: N/A

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2. COMPOSITION/INFORMATION ON INGREDIENTS, continued

EEC (European Community): N/A

Symbol Designation: N/A

Risk Phrases: N/A

Safety Phrases: N/A

3. HAZARDS INFORMATION

EMERGENCY OVERVIEW: Product is non-toxic by ingestion or inhalation.

Direct contact may cause mild skin and eye irritation.

ROUTE(S) OF ENTRY: Skin: No

Inhalation: No

Ingestion: No

SKIN CONTACT: Slightly irritating, all irritation cleared in 72 hours.

SKIN SENSITIZATION: Not a contact sensitizer, zero incidence of positive response

EYE CONTACT: Mildly irritating, ocular irritation cleared within 7 days.

TARGET ORGANS: N/D.

CARCINOGENICITY RATING: NTP: N/L IARC: N/L OSHA: N/L ACGIH: N/L

None.

SIGNS AND SYMPTOMS: Direct contact may cause mild skin and eye irritation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: N/D. Pre-existing eye, skin, or respiratory disorders.

4. FIRST AID MEASURES

EYES: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

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

INGESTION: Remove from source of exposure. 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.

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5. FIRE FIGHTING PROCEDURES

FLASH POINT: N/A
FLASH POINT METHOD: N/A
LOWER EXPLOSIVE LIMIT(%): N/D
UPPER EXPLOSIVE LIMIT(%): N/D
AUTOIGNITION TEMPERATURE: N/D
FIRE & EXPLOSION HAZARDS: Non-flammable and no explosive properties.
EXTINGUISHING MEDIA: Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.
FIRE FIGHTING INSTRUCTIONS: Wear protective clothing and self-contained breathing apparatus (NIOSH-approved) to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

SPILL OR RELEASE PROCEDURES: Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

HANDLING: Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE: Store in a cool, dark and dry place.

SPECIAL PRECAUTIONS: Light sensitive

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use local exhaust.

RESPIRATORY PROTECTION: Not usually required. However, mixers/loaders and applicators not in enclosed cabs or aircraft must wear a dust/mist respirator meeting NIOSH standards of at least N-95, R-95 or P-95.

SKIN PROTECTION: Impervious gloves, clothing to minimize skin contact.

EYE PROTECTION: Not usually required. If necessary, use safety glasses or goggles.

OTHER PROTECTION: Wash thoroughly with soap and water after handling.

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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: White granular

ODOR: Odorless

BOILING POINT: N/A

MELTING/FREEZING POINT: N/A

VAPOR PRESSURE (mm Hg): N/A

VAPOR DENSITY (Air=1): N/A

EVAPORATION RATE: N/A

BULK DENSITY: 0.53 g/ml

SPECIFIC GRAVITY: N/A

SOLUBILITY: N/A

pH: 3.2 (1% solution)

VISCOSITY: N/A

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable. Materials to avoid are strong oxidizing agents.

INCOMPATIBILITIES: Light sensitive.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

ORAL LD₅₀: >5,000 mg/kg (rat)DERMAL LD₅₀: >5,000 mg/kg (rat)INHALATION LC₅₀: >5.1 mg a.i./L (rat)

DERMAL IRRITATION: Transient, slight or mild irritation noted in a dermal toxicity study. This product is considered to be a mild or slight skin irritant.

OCULAR IRRITATION: Mildly irritating. Maximum mean total Draize score of 14.3 observed in test animals in a study with this product, corneal opacity evident in 1 treated eye at 24 hours, all animals free of ocular irritation within 7 days.

DERMAL SENSITIZATION: In a modified Magnusson-Klingman method test with guinea pigs, the test substance was not classified as a sensitizer.

SPECIAL TARGET ORGAN EFFECTS: N/D

CARCINOGENICITY INFORMATION: N/D.

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12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

ORAL LD₅₀: > 2,250 mg a.i./kg body weight (Northern bobwhite)
Environmental LC₅₀: > 121 mg a.i./L (Trout)
Environmental EC₅₀: > 120 mg a.i./L (Daphnia)

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Dispose of product in accordance with federal,
state, and local regulations.

14. TRANSPORTATION INFORMATION

DOT STATUS: Not Regulated
PROPER SHIPPING NAME: N/A
HAZARD CLASS: N/A
UN NUMBER: N/A
PACKING GROUP: N/A
REPORTABLE QUANTITY: N/A

IATA/ICAO STATUS: Not Regulated
PROPER SHIPPING NAME: N/A
HAZARD CLASS: N/A
UN NUMBER: N/A
PACKING GROUP: N/A
REPORTABLE QUANTITY: N/A

IMO STATUS: Not Regulated
PROPER SHIPPING NAME: N/A
HAZARD CLASS: N/A
UN NUMBER: N/A
PACKING GROUP: N/A
REPORTABLE QUANTITY: N/A
FLASH POINT: N/A

15. REGULATORY INFORMATION

TSCA STATUS: Exempt
CERCLA STATUS: N/D
SARA STATUS: N/D
RCRA STATUS: N/D
PROP 65 (CA): N/D

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16. OTHER INFORMATION

REASON FOR ISSUE: -To add the EPA Registration number
 -To change inhalation toxicity value from >2.06 mg
 a.i./L to >5.1 mg a.i./L

APPROVAL DATE: 3/11/10

SUPERSEDES DATE: 8/05/09, 10/26/07, 03/08/07, 8/28/08

LEGEND: N/A = Not Applicable

N/D = Not Determined

N/L = Not Listed

L = Listed

C = Ceiling

S = Short-term

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870 Technology Way, Suite 100
Libertyville, IL 60048 - 800-323-9597

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