

Accel® Plant Growth Regulator

MSDS# BIO-0061 Rev. 1

ISSUED 06/11/04

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL NAME: Accel® Plant Growth Regulator
EPA Registration No. 73049-29
Code Number: 11780
List Number: 11780

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: 6-Benzyladenine (N-(Phenylmethyl)-1H-purine-6-amine)
CONCENTRATION: 1.80 %
CAS NUMBER: 1214-39-7

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

INGREDIENT NAME: Gibberellin A4 and Gibberellin A7
CONCENTRATION: 0.18 %
CAS NUMBER: 468-44-0 and 510-75-8

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

INGREDIENT NAME: Inert/Other Ingredients - identity withheld as a Trade
Secret
CONCENTRATION: 98.02 %
CAS NUMBER: 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: 2 ppm for a major component (AIHA)
LIMITS STEL: N/A
CEILING: N/A

3. HAZARDS INFORMATION

EMERGENCY OVERVIEW: Direct contact with eyes may cause moderate to severe irritation. Direct contact with skin may cause mild irritation.

ROUTE(S) OF ENTRY: Skin: No
Inhalation: No
Ingestion: No

SKIN CONTACT: Non-irritant

SKIN SENSITIZATION: Non-sensitizer

EYE CONTACT: Irritant

TARGET ORGANS: Central Nervous System (CNS), Reproductive function

CARCINOGENICITY RATING: NTP: N/L IARC: N/L OSHA: N/L ACGIH: N/L
None

SIGNS AND SYMPTOMS: Excessive exposure to carrier solvent vapor may cause dizziness, blurred vision, nausea, vomiting or headaches.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: CNS disorders (carrier solvent).

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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.

5. FIRE FIGHTING PROCEDURES

FLASH POINT: 165° F (74° C)

FLASH POINT METHOD: Tag Closed Cup

LOWER EXPLOSIVE LIMIT(%): 1.5%

UPPER EXPLOSIVE LIMIT(%): 9.7%

AUTOIGNITION TEMPERATURE: 540° F (282° C)

FIRE & EXPLOSION HAZARDS: Combustible liquid.

EXTINGUISHING MEDIA: Use appropriate medium for underlying cause of fire.

FIRE FIGHTING INSTRUCTIONS: Wear protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

SPILL OR RELEASE PROCEDURES: Recover product and place in appropriate container for disposal. Ventilate and wash area.

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7. HANDLING AND STORAGE

HANDLING: N/D.

STORAGE: Store below 75 F (24 C). Keep containers tightly closed when not in use.

SPECIAL PRECAUTIONS: Wash thoroughly with soap and water after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use local exhaust.

RESPIRATORY PROTECTION: Not usually required. If necessary, use air purifying respirator with dust-mist/organic vapor cartridge combination.

SKIN PROTECTION: Wear impervious gloves (e.g. nitrile rubber, or neoprene) to prevent contact. Wear protective clothing, as necessary to minimize contact.

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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: Colorless to pale yellow clear liquid

ODOR: Characteristic of solvent carrier

BOILING POINT: 178° C (352° F)

MELTING/FREEZING POINT: N/D

VAPOR PRESSURE (mm Hg): N/D

VAPOR DENSITY (Air=1): > 2

EVAPORATION RATE: N/D

BULK DENSITY: N/D

SPECIFIC GRAVITY: 1.057 g/ml

SOLUBILITY: Miscible with water

pH: 5.1 ± 0.2 (10% solution in water)

VISCOSITY: 6.4 cps

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10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under ordinary conditions of use and storage.

INCOMPATIBILITIES: Oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: N/D.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

ORAL LD50: N/D. > 3,000 mg/kg (rat) for a similar formulation

DERMAL LD50: N/D. > 2,000 mg/kg (rabbit) for a similar formulation

INHALATION LC50: N/D. No lethality was observed in rats after a 4 hour exposure to a similar formulation at a maximum obtainable aerosol concentration of 1.77 mg/L.

CORROSIVENESS: No corrosive properties.

DERMAL IRRITATION: N/D. A similar formulation produced slight redness in dermal irritation test in rabbits. Not classified as a skin irritant.

OCULAR IRRITATION: N/D. A similar formulation produced moderate to severe irritation with corneal opacity persisting through day 21 of the study.

DERMAL SENSITIZATION: N/D. A similar formulation did not produce any positive reactions in skin sensitization assay (maximization test) in guinea pigs.

SPECIAL TARGET ORGAN EFFECTS: Subchronic exposure studies (oral, dermal and inhalation) with the carrier solvent at relatively high levels, have demonstrated systemic toxicity, reproductive toxicity, and central nervous system depression in either rats, rabbits or dogs.

CARCINOGENICITY INFORMATION: None of the components are listed as carcinogens.

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12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: N/D

13. DISPOSAL CONSIDERATIONS
-----WASTE DISPOSAL METHODS: Dispose of product in accordance with federal,
state and local regulations.14. TRANSPORTATION INFORMATION
-----DOT STATUS: Not Regulated (49CFR173.150: Combustible liquids in non-bulk
packaging are not regulated by DOT)

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: 165° F

15. REGULATORY INFORMATION

TSCA STATUS: EXEMPT

RCRA STATUS: N/D

CERCLA STATUS: N/D

PROP 65 (CA): N/D

SARA STATUS: N/D

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16. OTHER INFORMATION

REASON FOR ISSUE: Updated Hazard Information (Section 3), Phys/Chem
Information (Section 9) and Toxicological
Information (Section 11).

APPROVAL DATE: 06/11/04

SUPERSEDES DATE: 06/12/01

LEGEND: N/A = Not Applicable

N/D = Not Determined

N/L = Not Listed

L = Listed

C = Ceiling

S = Short-term

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