1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL NAME: Release® Plant Growth Regulator Soluble Powder
EPA REG No.: 73049-6
Code Number: 11849
List Number: 11021

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: Gibberellic Acid (GA3)
CONCENTRATION: 10%
CAS NUMBER: 77-06-5
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: Other Ingredients – Trade Secret Information
CONCENTRATION: 90%
CAS NUMBERS: NA
OSHA-PEL 8HR TWA: 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction) for one component.
STEL: N/L
CEILING: N/L
ACGIH-TLV 8HR TWA: 2 mg/m³ (respirable fraction) for one component
STEL: N/L
CEILING: N/L
OTHER 8HR TWA: N/A
LIMITS STEL: N/A
CEILING: N/A
3. HAZARDS INFORMATION

EMERGENCY OVERVIEW: This material is non-toxic by ingestion, skin contact, or inhalation. This material is a moderate eye irritant.

ROUTE(S) OF ENTRY: Skin: Possible, but unlikely
                 Inhalation: Possible, but unlikely
                 Ingestion: Possible, but unlikely

SKIN CONTACT: Non-irritant

SKIN SENSITIZATION: Non-sensitizer

EYE CONTACT: Moderate irritant

TARGET ORGANS: Respiratory system (Dust)

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

SIGNS AND SYMPTOMS: Chronic exposure to a minor component in this product has been linked to pulmonary fibrosis in experimental animals and exposed workers.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None that are known.

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: N/A
FLASH POINT METHOD: N/A
LOWER EXPLOSIVE LIMIT(%): N/A
UPPER EXPLOSIVE LIMIT(%): N/A

AUTOIGNITION TEMPERATURE: N/D

FIRE & EXPLOSION HAZARDS: Non-flammable and no explosive properties.

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, place into appropriate container for disposal. Avoid dust. Ventilate and wash spill area.

7. HANDLING AND STORAGE

HANDLING: The usual precautions for handling chemicals should be observed.

STORAGE: Avoid excessive temperatures and direct sunlight. Store in dry area, keep material dry and container tightly closed.

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 a MSHA/NIOSH approved (or equivalent) respirator with high efficiency filter.

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

EYE PROTECTION: Safety glasses or goggles.
9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: White to tan fine powder
  ODOR: N/D
  BOILING POINT: N/A
  MELTING/FREEZING POINT: N/D
  VAPOR PRESSURE (mm Hg): N/A
  VAPOR DENSITY (Air=1): N/A
  EVAPORATION RATE: N/A
  BULK DENSITY: 0.52 g/ml
  SPECIFIC GRAVITY: N/D
  SOLUBILITY: Soluble in water and alcohols.
    pH: 7.2-7.6 (1% aqueous solution)
  VISCOSITY: N/A

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions of use.

INCOMPATIBILITIES: None that are known.

HAZARDOUS DECOMPOSITION PRODUCTS: N/D.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

ORAL LD50 (rat): > 5,000 mg/kg

DERMAL LD50 (rabbit): > 2,000 mg/kg

INHALATION LC50 (rat): > 6.2 mg/l (4 hr whole body exposure)

CORROSIVENESS: N/D. Not expected to have corrosive properties.

DERMAL IRRITATION: Produced slight to well-defined redness at site of application in several animals. Not classified as a skin irritant.
11. TOXICOLOGICAL INFORMATION, continued

OCULAR IRRITATION: Produced conjunctival irritation in test animals immediately after application. Effects were temporary. Classified as a mild to moderate irritant.

DERMAL SENSITIZATION: Did not produce skin sensitization in test animals. Not classified as a sensitizer.

SPECIAL TARGET ORGAN EFFECTS: N/D. In reproduction studies in rats, no maternal or fetal toxicity, or other adverse effects to the fetus were noted following large dosages (1000 mg/kg/day) of gibberellic acid technical powder.

CARCINOGENICITY INFORMATION: N/D. None of the components are classified as carcinogens.

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
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
14. TRANSPORTATION INFORMATION, continued

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

16. OTHER INFORMATION

REASON FOR ISSUE: Added to Hazards Information (Section 3) and Physical / Chemical Properties (Section 9)
APPROVAL DATE 06/28/04
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
® = Registered Trademark of Valent BioSciences
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