

RyzUp SmartGrass
MSDS# BIO-0501 Rev.1

ISSUED 09/02/09

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL NAME: RyzUp SmartGrass

EPA Reg. No. 73049-1
Code Number: 53556, 62907, 35550
List Number: 60218

SYNONYMS: None

MANUFACTURER: Valent Biosciences
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

CONCNETRATION: 40.00%

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: Inert ingredients - Proprietary Information

CONCNETRATION: 60.00%

CAS 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 STEL: N/A

CEILING: N/A

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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: No
 Inhalation: No
 Ingestion: No

SKIN CONTACT: Non-irritant

SKIN SENSITIZATION: Non-sensitizer

EYE CONTACT: Moderate irritant

TARGET ORGANS: N/D

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

SIGNS AND SYMPTOMS: Direct contact with the product may cause irritation of the skin or eyes.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Non 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.

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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 the 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 an appropriate container for disposal. Ventilate and wash the 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 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.

OTHER PROTECTION: Wear tyvek coveralls during dusty operations.

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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: White to off-white granules
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 Solid material.
BULK DENSITY: 0.43-0.55 g/mL
SPECIFIC GRAVITY: N/D
SOLUBILITY: Soluble in water.
pH: 3.5-4.5 (as a 1.0% solution in water)
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: > 5,000 mg/kg (rat) for gibberellic acid technical powder.

> 5,000 mg/kg (rat) for the product

DERMAL LD50: > 2,000 mg/kg (rabbit) for gibberellic acid technical.

> 5,000 mg/kg (rat) for the product

INHALATION LC50: N/D. Gibberellic acid was not lethal in inhalation studies with rats at 1.7 mg/L/4 hours and with mice and guinea pigs at 0.283 mg/L/1.5 hours. The product is a granular solid nearly free of dust.

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

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11. TOXICOLOGICAL INFORMATION, continued

DERMAL IRRITATION: N/D. In tests with gibberellic acid technical powder, slight to well-defined redness occurred at site of application in several animals. Repeated or prolonged contact with the granules may produce skin irritation, however, solutions are not expected to be irritating.

OCULAR IRRITATION: N/D. In tests with gibberellic acid technical powder, transient irritation was observed in test animals immediately after application. Direct contact with the product may cause irritation, however, solutions are not expected to be irritating.

DERMAL SENSITIZATION: N/D. In a sensitization test with guinea pigs using gibberellic acid technical powder, the results indicated gibberellic acid technical powder is not 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. In reproduction studies in rabbits, maternal and fetal toxicity were noted at 1000 mg/kg/day, but not at 300 mg/kg/day. No reproductive effects.

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

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: For the Technical material
LD₅₀ Gibberellic acid (GA₃), Northern bobwhite > 2250 mg/kg bw.
No effect on bees.
No effect on beneficial insects.

13. DISPOSAL CONSIDERATIONS

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

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14. TRANSPORTATION INFORMATION

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

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

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

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: Updated product name
APPROVAL DATE: 09/02/09
SUPERSEDES DATE: 03/26/09

LEGEND: N/A = Not Applicable
N/D = Not Determined
N/L = Not Listed
L = Listed
C = Ceiling
S = Short-term
(R) = Registered Trademark of Valent BioSciences
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