

## ProGibb 40% Plant Growth Regulator, Water Soluble Granule

SDS# VBC-0007 Revision 2

ISSUED 09/29/15

[Classification according to OSHA; 29 CFR § Part 1910.1200, (3/12/2012)]

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY****1.1 Product Identifier****MATERIAL NAME:** ProGibb<sup>®</sup> 40% Plant Growth Regulator, Water Soluble Granule**Synonyms:** RyzUp<sup>®</sup> SmartGrass Plant Growth Regulator, RyzUp SmartCorn, ProGibb SG, ProGibb 40 SG, ProGibb 40% SG, ProGibb 40% GS, ProGibb 400, ProGibb 4X, Accel 40 SG, Accel 40 WSG, Activol 40 WG, Berelex 40%, Berelex 40 SG, Grocel 40 SG, Grocel 40 WSG, RyzUp 40 SG, RyzUp SmartGrass 40 SG**EPA Reg No.:** 73049-1**Code Number:** 35550, 53556**Chemical Family:** Gibberellin, naturally occurring plant growth regulators**1.2 Relevant Identified Uses and Uses Advised Against****Identified Uses:** Pesticide (Plant Growth Regulator)**Uses Advised Against:** It is a violation of Federal Law to use this product in a manner inconsistent with its Pesticide labeling.**1.3 Details of the supplier of the Safety Data Sheet****Supplied By:** Valent BioSciences Corporation  
870 Technology Way  
Libertyville, Illinois 60048**Manufactured By:** Valent BioSciences Corporation  
870 Technology Way  
Libertyville, Illinois 60048**1.4 EMERGENCY TELEPHONE NUMBERS****Emergency Health or Spill:**

Outside the United States: (01) 651-632-6184

Within the United States: 877-315-9819

**2. HAZARDS IDENTIFICATION****2.1 Classification of the Substance or Mixture**

Eye Irritation, Category 2B

**2.2 Labeling Elements****Symbol(s)**

None

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**Signal Word**

WARNING

**Hazard Statement(s)**

Causes eye irritation

**Precautionary Statement:**

**Prevention**

- Avoid breathing dust
- Wash thoroughly after handling
- Wear protective clothing/eye protection

**Response**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/ attention.
- IF ON SKIN: Wash with plenty of water.
- If skin irritation or rash occurs: Get medical advice/ attention.
- Take off contaminated clothing and wash it before reuse.

**Disposal**

Dispose of contents/container in accordance with local/regional/national/regulations.

**Labeling**

FIFRA EPA approved pesticide labeling required.

**2.3 Other Hazards**

None identified.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

CAS #	Active Ingredients - Name	Percent
77-06-5	Gibberellic Acid (GA3)	40%

CAS #	Component Other-Ingredient Name	Percent
Trade Secret	Other ingredients	60%

**4. FIRST AID MEASURES**

**4.1 Description of First Aid Measures**

**GENERAL:** In all cases of doubt, seek medical attention.

**EYES:** Remove from source of exposure. Flush with copious amounts of water. Remove contact lenses, if present and easy to do, after the first 5 minutes, then continue rinsing. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic /supportive

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care as necessary.

**SKIN:** Remove from source of exposure. Take off contaminated clothing. 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. Move person to fresh air. Do NOT induce vomiting. Give large quantities of water. 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. If person is not breathing, call 911, and then give artificial respiration.

**4.2 Most important Symptoms and Effects, both Acute and Delayed****Acute**

Eye irritation

**Delayed**

No information on significant adverse effects

**4.3 Indication of any Immediate Medical Attention and Special Treatment Needed**

Treat symptomatically and supportively

**5. FIRE FIGHTING PROCEDURES****5.1 Extinguisher Media****Suitable Extinguisher Media**

Dry chemical, water spray, foam or carbon dioxide.

**Unsuitable Extinguisher Media**

None known

**5.2 Specific Hazards Arising from the Chemical**

None known

**Thermal decomposition products**

Carbon oxides, nitrogen oxides

**5.3 Advice to Firefighters****Protective Equipment and precautions for firefighters**

Fire fighter should wear full-face, self-contained breathing apparatus and impervious protective

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clothing. Fire fighters should avoid inhaling combustion products. See Section 8 (Exposure Controls / Personal Protection)

**Fire & Explosive hazard**

. Formulated product is not expected to be flammable.

**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal Precautions, Protective Equipment and Emergency Procedures**

Where exposure level is known, wear respirator suitable for level of exposure. Where exposure level is not known, wear approved, positive pressure, self-contained respirator. In addition to the personal protection as recommended in section 8.

**6.2 Environmental Precautions**

Keep out of drains, sewers, ditches and waterways. Avoid runoff to waterways and sewers. Do not discharge effluent containing this product into natural bodies of water.

**6.3 Methods and Materials for Containment and Cleaning Up**

Ventilate area. Wear appropriate personal protective equipment. Recover product and place into appropriate container for disposal. Do not flush to sewer.

**6.4 Reference to Other Sections**

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations. See Section 13 for Disposal Considerations.

US regulations may require reporting spills of hazardous materials: See section 15: Regulatory Information for details on reportable quantities, if any.

**7. HANDLING AND STORAGE****7.1 Precautions for Safe handling**

Ventilate. Avoid breathing dust. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Do not eat, drink or smoke while working with product. Obey reasonable safety precautions and practice good housekeeping. For filling operations respiratory protection may be recommended particularly in enclosed areas.

**7.2 Conditions for Safe Storage, Including Incompatibilities**

Protect against physical damage. Close containers of unused material. Store in a dry, cool place.

**Incompatibilities**

None Known

**7.3 Specific End Use(s)**

Pesticide, Plant Growth Regulator.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control Parameters**

**Component Exposure Limits**

None established.

**Derived No Effect Levels (DNELs)**

No DNELs available

**Predicted No Effect Concentrations (PNECs)**

No PNECs available

**8.2 Exposure Controls**

**Appropriate Engineering Controls**

Provide general ventilation. Where adequate general ventilation is unavailable use process enclosure, local exhaust ventilation, or other engineering controls to control dust.

**SKIN PROTECTION:**

Wear impervious protective clothing, including boots and gloves. Wear gloves made of impervious materials. Wash thoroughly with soap and water after handling.

**EYE PROTECTION:**

Wear goggles or safety glasses with side shields when handling.

**RESPIRATORY PROTECTION:**

For filling operations if dust is produced respiratory protection is recommended. Use dust/mist filtering respirator (MSHA/NIOSH approved number prefix TC-21C) or a NIOSH approved respirator with any N, P, R or HE filter).

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on Basic Physical and Chemical Properties**

Appearance/Color:	White granules	Odor:	Odorless
pH:	2.9% (1% solution)	Pour density:	0.53 g/mL
Tap density:	0.55 g/mL	Free acidity:	6.2% w/w as sulphuric acid
Explosive properties:	Not explosive (TGAI)	Self-ignition temperature:	Material does not self-ignite below 400 °C
Oxidizing properties:	Not oxidizing (TGAI)	Flammability Class:	Not highly flammable (TGAI)

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**10. CHEMICAL STABILITY AND REACTIVITY****10.1 Reactivity**

Material does not pose a significant reactivity hazard.

**10.2 Chemical Stability**

Stable under ordinary conditions of use and storage.

**10.3 Possibility of Hazardous Reactions**

Does not undergo hazardous polymerization

**10.4 Conditions to Avoid**

None known.

**10.5 Incompatible Materials**

None

**10.6 Hazardous Decomposition Products**

Carbon oxides and unidentified organic compounds.

**11. TOXICOLOGICAL INFORMATION****11.1 Information on Toxicological Effects**Likely Routes of ExposureInhalation: Yes  
Eye Contact: Yes  
Skin Contact: Yes  
Ingestion: NoProduct (or TGAI, as noted) ToxicologyAcute EffectsOral Toxicity: LD<sub>50</sub> > 5,000 mg/kg bw (rat)  
Dermal Toxicity: LD<sub>50</sub> > 5,000 mg/kg bw (rat) [Limit Test]  
Inhalation Toxicity: LC<sub>50</sub> > 2.269 mg/L air (rat) [Limit Test]  
Corrosiveness: Not corrosive.  
Dermal Irritation: Slightly irritating. All dermal irritation cleared within 48 hrs (rabbit)  
Ocular Irritation: Mildly irritating. All ocular irritation cleared within 72 hrs (rabbit)  
Dermal Sensitization: Not a sensitizer [Magnusson-Kligman method] (guinea pig)Mutagenicity Information: Components of this product are not listed as mutagens.  
Negative in chromosomal aberration, sister chromatid exchange in CHO.

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Did NOT induce Unscheduled DNA synthesis (UDS) in Rat hepatocytes in vivo (2000 mg/kg ;limit dose). Negative in E-coli reverse mutation AMES test, 10,000 mcg/dish. [TGAI]

Carcinogenicity Information: Components of this product are not listed as carcinogenic by NTP, IARC or OSHA.

Developmental / Reproductive Toxicity: This material is not a teratogenic compound.

Special Target Organ: None identified

Aspiration Hazard: Not Applicable

Repeat Dose Studies: Not Applicable, Acute toxicity testing was all negative.

**12. ECOLOGICAL INFORMATION****12.1 Ecotoxicity of the Mixture**

- Fish: LC<sub>50</sub> >100 mg a.i./L (96-H, *Cyprinus carpio*)
- Bird: LC<sub>50</sub> > 5,000 mg a.i./kg bw (Acute Oral – Pigeon)  
LC<sub>50</sub> > 5,000 mg a.i./kg bw (Acute Oral – Chicken)
- Invertebrates: EC<sub>50</sub> > 140 mg a.i./L (48-H, *Daphnia*), NOEC 140 mg/L (48-H, *Daphnia*)
- Bees (insect): LD<sub>50</sub> > 285.05 µg a.i./bee (24-H, 48-H) (Oral toxicity, honey bee)  
LD<sub>50</sub> > 250.00 µg a.i./bee (24-H, 48-H) (Contact toxicity, honey bee)
- Algae: Cell density EC<sub>50</sub> > 92 mg/L (72-H, Freshwater alga)  
Growth rate E<sub>r</sub>C<sub>50</sub> > 92 mg/L (72-H, Freshwater alga)  
Area under the growth curve E<sub>b</sub>C<sub>50</sub> > 92 mg/L (72-H, Freshwater alga)

**12.2 Persistence and Degradability**

Active ingredient is naturally occurring plant growth regulator. Active ingredient does not undergo aqueous photo-degradation. Active ingredient is not considered readily biodegradable.

**12.3 Bioaccumulation potential**

No data available. Bio-concentration Factor (BCF): Given that the log P<sub>OW</sub> for the active ingredient (0.45) is much less than 3, there is no potential for bio-concentration in fatty tissues and no potential for aquatic bio-magnification.

**12.4 Mobility in Soil**

No data available

**12.5 Results of PBT and vPvB assessment**

Assessments not performed

**12.6 Other adverse effects**

None known

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**13. DISPOSAL CONSIDERATIONS****13.1 Waste Disposal Methods**

Dispose of product in accordance with federal, state, provincial, and local regulations. Prevent contamination of environment by wastes.

**US EPA Waste Number & Descriptions:**

There is no applicable EPA waste number. This product, if discarded, is not expected to be a characteristic or listed hazardous waste.

**14. TRANSPORTATION INFORMATION**

DOT STATUS: Not Regulated as Hazardous by DOT

IATA/ICA0 STATUS: Not Regulated

IMO STATUS: Not Regulated

**15. REGULATORY INFORMATION****15.1 Safety, Health and Environmental Regulations / Specific Legislation**

TSCA STATUS: N/L

CERCLA STATUS: Not regulated as hazardous

SARA STATUS: Acute: No Chronic: No Fire: No CDT: No

RCRA STATUS: Not regulated as hazardous

State Right-To-Know: Consult applicable national, state provincial or local laws to determine regulations, laws or ordinances which may be applicable.

OSHA HAZARD COMMUNICATION STANDARD: Not defined by the OSHA Hazard Communication Standard, 29 CFR

**15.2 EPA Pesticide Regulations**

EPA Registration Number: 73049-1

EPA Pesticide Label signal word: CAUTION

Product must have EPA Approved Pesticide Label attached to or accompanying all containers.

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



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required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions and limitations for its use.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION****PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS & DOMESTIC ANIMALS**

Caution: Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

**Personal Protective Equipment (PPE)**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Waterproof gloves.
- Shoes plus socks.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**User Safety Recommendations**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning or disposing of equipment washwaters or rinsate.

Do not use treated seed for food, feed, or oil purposes. Exposed treated seed may be hazardous to birds and other wildlife. Treat only those seeds needed for immediate use and planting. Do not store excess treated seed beyond planting time. Dispose of all excess treated seed and seed packaging by burial away from bodies of water.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected

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handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribe agency responsible for pesticide regulation.

**GENERAL DIRECTIONS FOR USE**

Use only as directed. Read the label thoroughly and make sure it is understood before making applications. Keep out of reach of children.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage**

Keep containers tightly closed when not in use.

**Pesticide Disposal**

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**Container Disposal: ( 80 or 320 grams bottles)**

Non-refillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or mix tank. Fill container ¼ full with water and recap. Shake 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after flow begins to drip. Repeat this procedure two more times. Then offer for recycling or dispose of in a sanitary landfill, or incineration, if allowed by state and local authorities by burning. If burned, stay out of smoke.

**(2.5 grams sachets)**

Non-refillable container. Do not reuse or refill this container. Offer for reconditioning if appropriate or dispose of in a sanitary landfill, or incineration, if allowed by state and local authorities by burning. If burned, stay out of smoke.

**16. OTHER INFORMATION****NFPA Hazard Ratings**

Health: 0  
Flammability: 0  
Instability: 0

**HMIS Hazard Ratings**

Health: 0  
Flammability: 0  
Instability: 0

0 = minimal  
1 = slight  
2 = moderate  
3 = serious  
4 = Extreme

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REASONS FOR ISSUE: Correct Phys-chem data and Regulatory information

APPROVAL DATE: 09/29/15

SUPERSEDES DATE: 04/25/15

LEGEND: N/A = Not Applicable

N/D = Not Determined

N/L = Not Listed

L = Listed

C = Ceiling

S = Short-term

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