



## SAFETY DATA SHEET

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### ProGibb 4% Plant Growth Regulator

SDS# VBC-0012 Revision 4

ISSUED 09/26/2017

[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 4%, Plant Growth Regulator Solution

**Synonyms:** ProGibb T&O Plant Growth Regulator Solution, RyzUp 4%, RyzUp SL, ProGibb TVO Plant Growth Regulator Solution

**EPA Reg No.:** 73049-15

**Code Number:** 34775

**List Number:** 05016, 05370, 22055

**Chemical Family:** Gibberellin, naturally occurring plant growth regulators

**Substance Registration Number(s)[REACH]:** Not applicable

### 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 LLC  
870 Technology Way  
Libertyville, Illinois 60048

### 1.4 EMERGENCY TELEPHONE NUMBERS

#### Emergency Health or Spill:

Outside the United States: (+1) 651-632-6184

Within the United States: 877-315-9819

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the Substance or Mixture

Flammable Liquid - Category 2 (Isopropyl Alcohol)

Eye irritation - Category 2A

Specific Target Organ Toxicity (Single Exposure) - Category 3 (Central Nervous System)  
(Isopropyl alcohol)

### 2.2 Labeling Elements

**Symbol(s)**

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**Signal Word**

DANGER

**Hazard Statement(s)**

Highly flammable liquid and vapor  
Causes serious eye irritation  
May cause drowsiness or dizziness

**Precautionary Statement:****Prevention**

Keep away from heat/sparks/open flames/hot surfaces. NO Smoking.  
Keep container tightly closed  
Ground/bond container and receiving equipment  
Use explosive-proof electrical/ventilating/lighting equipment.  
Use only non-spark tools  
Take precautionary measures against static discharge  
Wear protective gloves/eye protection/face protection  
Wash hands and face thoroughly after handling  
Avoid breathing mist/spray  
Use only outdoors or in a well-ventilated area

**Response**

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of water.  
In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.  
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 inhaled: Remove person to fresh air and keep comfortable for breathing.  
Call a poison control center or doctor if you feel unwell.

**Storage**

Store in a well-ventilated place. Keep cool.  
Keep container tightly closed.  
Store locked up.

**Disposal**

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



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#### 2.3 Other Hazards

None identified.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Component Name	(Classification)	Percent
77-06-5	Gibberellic acid (GA3)	Eye Irritant – Cat 2B	4.00
67-63-0	Isopropyl alcohol	Flammable Liquid – Category 2; Eye Irritant – Category 2A; Specific Target Organ (Single Exposure)(Central Nervous System) – Category 3	95.36
Trade Secret	Other ingredients	Not classified	Trade Secret

### 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 care as necessary.

**SKIN:** Remove from source of exposure. Take off contaminated clothing. Flush with copious amounts of water. Cover irritated skin with an emollient. If irritation persists or 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.

**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.

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

##### Acute

Eye irritation and possible narcotic effect if ingested in sufficient quantity

##### Delayed

No information on significant adverse effects

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**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, foam (Alcohol resistant foams (ATC type) are preferred), carbon dioxide, or water fog or fine mist.

**Unsuitable Extinguisher Media**

Do not use direct water stream. Straight or direct water steam may not be effective.

**5.2 Specific Hazards Arising from the Chemical (isopropyl alcohol)**

Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

Unusual Fire and Explosion Hazards: Container may vent and/or rupture due to fire. When product is stored in closed containers, a flammable atmosphere can develop. Electrically ground and bond all equipment. Flammable mixtures of this product are readily ignited even by static discharge. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Flammable mixtures may exist within the vapor space of containers at room temperature. Flammable concentrations of vapor can accumulate at temperatures above flash point; see Section 9.

**5.3 Advice to Firefighters**

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Stay upwind. Keep out of low areas where gases (fumes) can accumulate. Water may not be effective in extinguishing fire. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Burning liquids may be extinguished by dilution with water. Do not use direct water stream it may spread fire. Eliminate ignition sources. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Use caution and test if material is burning before entering area. Material burns with invisible flame.

Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

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**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**

Prevent from entering into soil. Keep out of drains, sewers, ditches and waterways. Avoid runoff to waterways and sewers.

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

Ventilate area. Wear appropriate personal protective equipment. Contain spill if possible. Ground and bond all containers and handling equipment. Recover product with inert material (earth, sand, vermiculite), 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. Keep away from heat, sparks and flame. Avoid breathe mist or vapor. 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. Do not enter confined spaces unless adequately ventilated. Never use air pressure for transferring product. No smoking, open flames or sources of ignition in handling and storage area. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Ignition sources can include and are not limited to pilot lights, flames, smoking, sparks, heaters, electrical equipment, and static discharges. Electrically bond and ground all containers and equipment before transfer or use of material. Use of non-sparking or explosion-proof equipment may be necessary, depending upon the type of operation.

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

Protect against physical damage. Close containers of unused material. Store in a dry, cool, ventilated place. Store separately from reactive or combustible materials and out of direct sunlight.



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#### Incompatibilities

None Known

#### 7.3 Specific End Use(s)

Pesticide, Plant Growth Regulator

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control Parameters

##### Component Exposure Limits

Isopropyl Alcohol	TWA	999 mg/m <sup>3</sup>	400 ppm
	STEL	1,250 mg/m <sup>3</sup>	500 ppm

##### Derived No Effect Levels (DNELs)

Isopropyl Alcohol	Long-term systemic effects
Skin contact	319 mg/kg bw/day
Ingestion	26 mg/kg bw/day
Inhalation	89 mg/m <sup>3</sup>

##### Predicted No Effect Concentrations (PNECs)

Isopropyl Alcohol	
Fresh water	140 mg/l
Marine water	140 mg/l
Sediment	552 mg/kg d.w.
Soil	28 mg/kg d.w.

#### 8.2 Exposure Controls

##### Appropriate Engineering Controls

Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below applicable limits.

##### SKIN PROTECTION:

Wear impervious protective clothing, including boots and gloves. For filling operations if dust/mist is produced respiratory protection is recommended. Wear gloves made of impervious materials. Wash thoroughly with soap and water after handling.

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**EYE PROTECTION:**

Wear Goggles, safety glasses with side shields or full-face shield when splashing or spraying of materials is likely. If exposure causes eye discomfort, use a full face respirator.

**RESPIRATORY PROTECTION:**

When there is a potential to exceed the exposure limits, use a respirator (MSHA/NIOSH approved number prefix TC-21C) or a NIOSH approved respirator with any N, P, R or HE filter. Wash thoroughly with soap and water after handling.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Color:	Colorless to light yellow liquid	Odor:	Characteristic of Isopropyl alcohol
pH:	2.9% (10% slurry)	Boiling Point:	Not Determined
Melting Point:	Not applicable (liquid)	Solubility (H <sub>2</sub> O):	Not Determined
Density:	Not Determined	Relative Density:	0.80
Octanol/H <sub>2</sub> O Coeff:	Not Determined	Evaporation Rate:	Not Determined
Auto Ignition:	Not Determined	Decomposition Temp.:	Not applicable
Flash Point.:	13 °C	Flammability Class:	Flammable
Kinematic Viscosity:	Kinetic: 3.47 mm <sup>2</sup> /s @ 20°C Kinetic: 1.96 mm <sup>2</sup> /s @ 40°C	Dynamic Viscosity:	Dynamic: 2.78 mPa.s @ 20°C Dynamic: 1.57 mPa.s @ 40°C

**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. Stable at 54°C when exposed to metals and metal ions. Hydrolytically stable at pH 4, 7 and 9. Not stable in Light when in solution. Spontaneous reaction: Not possible.

**10.3 Possibility of Hazardous Reactions**

Does not undergo hazardous polymerization

**10.4 Conditions to Avoid**

Keep away from fires and sources of ignition.

**10.5 Incompatible Materials**

Keep away from strong oxidizing materials and strong acids.

**10.6 Hazardous Decomposition Products**

Carbon oxides and unidentified organic compounds.



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### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on Toxicological Effects

##### Likely Routes of Exposure

Eye Contact: Yes

Skin Contact: Yes

Inhalation: Unlikely

Ingestion: Unlikely

##### Product Toxicology

##### Acute Effects

Oral Toxicity: LD<sub>50</sub> > 5,000 mg/kg bw (rat) [Limit test]

Dermal Toxicity: LD<sub>50</sub> > 2,000 mg/kg bw (rat) [Limit test]

Inhalation Toxicity: LC<sub>50</sub> > 5.67 mg/L air (rat)

Corrosiveness: Not corrosive.

Dermal Irritation: Mildly irritating

Ocular Irritation: Moderate-irritating, cleared by 21 days

Dermal Sensitization: Not a sensitizer (guinea pig)

Mutagenicity Information: Components of this product are not listed as mutagens.

Negative in chromosomal aberration, sister chromatid exchange in CHO. [TGAI]

Did NOT induce Unscheduled DNA synthesis (UDS) in Rat hepatocytes in vivo (2000 mg/kg; limit dose). [TGAI]

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: Central Nervous System

Aspiration Hazard: Not Applicable

Repeat Dose Studies: Not performed

### 12. ECOLOGICAL INFORMATION

#### 12.1 Ecotoxicity

This product has not been tested for ecotoxicological effects. Test results for the Technical Grade Active Ingredient [TGAI] are given below.

Fish: LC<sub>50</sub> > 150 mg a.i./L (96-H, rainbow trout) [TGAI Limit test]

Bird: LC<sub>50</sub> > 2250 mg a.i./kg bw (Acute Oral - Bobwhite Quail) [TGAI limit test]

Bird: LC<sub>50</sub> > 6018 mg a.i./kg bw (Feeding - Bobwhite Quail) [TGAI]



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Invertebrates:  $EC_{50} > 488$  mg a.i./L (48-H) (Daphnia) [TGAI]  
Algae: Not tested, Naturally occurring plant growth regulator.

**12.2 Persistence and Degradability**

Naturally occurring Plant Growth regulator that has been shown in publications to be present in all plants and to degrade naturally in the environment. Active ingredient readily degraded.

Hydrolysis: Not hydrolytically active

Photolysis:  $DT_{50}$  34 hours (air)

$DT_{50}$  0.1 days at pH 4, 2.5 days at pH 7 or 9 (aqueous)

**12.3 Bioaccumulation potential**

Partition coefficient n-octanol/water

In pH 2.2 buffer at 22°C (98 %):

$\log P_{ow} = 0.72$

Bio-concentration Factor (BCF): Given that the  $\log P_{ow}$  for the active ingredient 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

**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.



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## 14. TRANSPORTATION INFORMATION

DOT STATUS: Regulated by DOT  
UN PROPER SHIPPING NAME: Isopropanol Solution, 3, UN1219, II  
HAZARD CLASS: 3  
UN NUMBER: UN1219  
PACKING GROUP: II  
MARINE POLLUTANT: Not considered an environmental hazard  
REPORTABLE QUANTITY: N/A

IATA/ICAO STATUS: Regulated  
PROPER SHIPPING NAME: Isopropanol solution  
HAZARD CLASS: 3  
UN NUMBER: UN1219  
PACKING GROUP: II  
REPORTABLE QUANTITY: N/A

IMO STATUS: Regulated  
PROPER SHIPPING NAME: Isopropanol solution  
HAZARD CLASS: 3  
UN NUMBER: UN1219  
PACKING GROUP: II  
REPORTABLE QUANTITY: N/A  
FLASH POINT: 55.4° F (for Isopropanol solution)

## 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: Yes Chronic: No Fire: Yes 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



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#### 15.2 EPA Pesticide Regulations

EPA Registration Number: 73049-15

EPA Pesticide Label signal word: WARNING

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 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  
WARNING - AVISO**

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**WARNING**

Causes substantial but temporary eye injury. Harmful if inhaled or absorbed through skin. Do not get in eyes or on clothing. Avoid breathing vapor or spray mist, and avoid contact with skin. Wash thoroughly with water and soap after handling. Remove and wash contaminated clothing before reuse.

#### ENVIRONMENTAL HAZARDS

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 disposing of equipment washwaters or rinsate.

#### PHYSICAL OR CHEMICAL HAZARDS

FLAMMABLE! Keep away from heat and open flame.

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



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### GENERAL USE INSTRUCTIONS

Use only as directed. Read the label thoroughly and understand it 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:** Store in a cool, dry place. Keep containers tightly closed when not in use. Keep away from heat and open flame.

**Pesticide Disposal:** To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinance.

### 16. OTHER INFORMATION

#### NFPA Hazard Ratings

Health: 2  
Flammability: 3  
Instability: 0

#### HMIS Hazard Ratings

Health: 2  
Flammability: 3  
Instability: 0

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

REASON FOR ISSUE: Updated a.i. content.

APPROVAL DATE: 03/16/17

SUPERSEDES DATE: 01/20/16

LEGEND: N/A = Not Applicable

N/L = Not Listed

C = Ceiling

(R) = Registered Trademark of Valent BioSciences

(TM) = Registered Trademark of Valent BioSciences

N/D = Not Determined

L = Listed

S = Short-term



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This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.



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