

## 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

### Product Identifiers

Product Name: Gibberellic Acid Solution (13 mg/mL)  
Product Number: G362

### Other means of identification

**Synonyms:** GA<sub>3</sub>; Gibberellin A<sub>3</sub>

**Recommended Use** For Research/Laboratory Use ONLY

**Restrictions on Use** Products manufactured by PhytoTechnology Laboratories and supplied by Austratec Pty Ltd are intended for research and laboratory use ONLY. Products are NOT to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.

### Details of Importer/Supplier

Company: Austratec Pty Ltd, Factory 12/49 Corporate Blvd, Bayswater VIC 3153, AUSTRALIA  
Telephone: +61 3 9729 4528  
Fax: +61 3 9729 4578  
Website: [www.austratec.com.au](http://www.austratec.com.au)

**Emergency phone number** 13 11 26 (24 hour – Poisons Information Centre)

## 2. HAZARD(S) IDENTIFICATION

**GHS Classification** Serious Eye Damage/Eye Irritation (Category 2/2A)

### GHS Label elements, including precautionary statements

Pictogram:  Signal Word: **WARNING**

**Hazard Statement(s)** H319 – Causes serious eye irritation.

### Precautionary statement(s)

**Prevention:** P264 – Wash hands thoroughly after handling.  
P280 – Wear protective gloves/protective clothing/eye protection.

**Response:** P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water. Remove contact lenses if present and easy to do. Continue rinsing.  
P337 + P313 – If eye irritation persists: Get medical advice/attention.

**Storage:** None

**Disposal:** None

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

CAS Number: 77-06-5 EC Number: 201-001-0  
Formula: C<sub>19</sub>H<sub>22</sub>O<sub>6</sub> Molecular Weight: 346.41 g/mol

INGREDIENT	CAS NUMBER	PERCENTAGE	HAZARDOUS
Gibberellic Acid	77-06-5	1.3%	No exposure limits established by OSHA or ACGIH
Potassium Hydroxide, 1.0N	1310-58-3	1-5%	ACGIH TVL: 2 mg/m <sup>3</sup>
Water	7732-18-5	94-98%	No exposure limits established by OSHA or ACGIH

### 4. FIRST AID MEASURES

#### Description of first aid measures

General advice: Consult a doctor/physician. Show this safety data sheet to the doctor in attendance.

Ingestion: MAY CAUSE IRRITATION IF SWALLOWED. If swallowed, wash mouth out with water. Never give anything by mouth to an unconscious person. Seek medical attention.

Inhalation: MAY CAUSE IRRITATION TO RESPIRATORY TRACT. Safely remove person to fresh air. If not breathing, begin cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Seek medical attention.

Eye contact: DIRECT CONTACT MAY CAUSE IRRITATION, REDNESS, TEARING, OR BLURRED VISION. Flush eye out immediately with water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical attention if irritation persists.

Skin contact: MAY CAUSE IRRITATION, REDDENING, ITCHING OR INFLAMATION. Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Seek medical attention.

#### Most important symptoms and effects, both acute and delayed

See section 2 and/or section 11

#### Recommendation for immediate medical attention and special treatment needed

No data available

### 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media** Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.

#### Specific hazards arising from the chemical

Hazardous combustion products: May emit toxic fumes under fire conditions.

Toxic gases produced: Carbon dioxide and carbon monoxide.

**Special protective equipment and precaution for firefighters** In the event of fire, wear full protective clothing and NIOSH (US) or EN145 (EU) approved self contained breathing apparatus. Evacuate the area and fight fire from a safe distance.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures** Use personal protection equipment (PPE) recommended in Section 8. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.

<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
<b>Methods and materials for containment and cleanup</b>	Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place in a dry container and cover. Remove from area for safe disposal (see section 13).

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## 7. HANDLING AND STORAGE

<b>Precautions for safe handling</b>	Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid incompatible substances. Provide appropriate exhaust ventilation where dust is formed. Wash thoroughly after use.
<b>Conditions for safe storage</b>	Keep in a tightly closed container and store in a cool, dry and well ventilated area. Protect from light
<b>Recommended Storage Temperature</b>	2 to 6°C.
<b>Incompatibilities</b>	Strong oxidizing agents.

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure control measures

Australian Exposure Standards (TWA;STEL):	No data available
OSHA's permissible exposure limits (PEL's):	No data available
ACGIH threshold limit values (TLV's):	Potassium Hydroxide (1310-58-3) ACGIH TVL: 2 mg/m <sup>3</sup>

**Engineering controls** Handle in accordance to general industrial hygiene and chemical safety practice.

### Personal protective equipment (PPE)

Eye Face Protection:	Chemical safety shield, glasses or goggles approved under NIOSH (US) or EN166 (EU). Have eye washing facilities readily available where eye contact can occur.
Skin Protection:	Suitable protective gloves.
Body Protection:	Lab coat or protective chemical suit. Protective equipment must be selected in accordance to the amount of dangerous substance within the specific workplace.
Respiratory Protection:	Use an appropriate dust mask. Use N95 (US) or type P1 (EN143) dust mask where dust level is a nuisance. Appropriate respirator approved under NIOSH (US) or CEN (EU).

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Off-white to cream powder
<b>Odour</b>	Odorless
<b>Odour threshold</b>	No data available
<b>pH (0.01 g/L)</b>	8.75 – 10.75 (solvent dependent)
<b>Melting point</b>	223 - 235°C
<b>Initial boiling point/boiling range</b>	No data available
<b>Flash point (closed cup)</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Flammable limits (upper %)</b>	No data available

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<b>Flammable limits (lower %)</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available
<b>Relative density</b>	No data available
<b>Solubility</b>	Slightly soluble in water, more soluble in NaOH or KOH
<b>Partition coefficient (n-octanol/water)</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available

#### 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No data available.
<b>Chemical stability</b>	Stable under normal conditions of use and recommended storage conditions.
<b>Possibility of hazardous reactions</b>	No data available.
<b>Conditions to avoid</b>	Moist air.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Carbon dioxide and carbon monoxide

#### 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	LD <sub>50</sub> (Oral, Rat)(mg/Kg):	6300
	LD <sub>50</sub> (Skin, Rabbit)(mg/Kg):	>2000
	LD <sub>50</sub> (Oral, Mouse)(mg/Kg):	8500
<b>Skin corrosion/irritation</b>	No data available	
<b>Serious eye damage/irritation</b>	No data available	
<b>Respiratory or skin sensitisation</b>	No data available	
<b>Germ cell mutagenicity</b>	No data available	
<b>Carcinogenicity</b>	NTP:	No
	IARC:	No
	Z List:	No
	OSHA Reg:	No
<b>Reproductive toxicity</b>	No data available.	
<b>Specific target organ toxicity (STOT)</b>	Single Exposure:	No data available
	Repeated Exposure:	No data available
<b>Aspiration hazard</b>	No data available	
<b>Target organs</b>	Liver	
<b>Medical conditions aggravated by exposure</b>	No data available	
<b>Routes of entry</b>	Inhalation, ingestion. skin and eye contact.	

**Symptoms associated with overexposure** Irritation, sneezing, gastrointestinal upset, nausea, vomiting, possible mutagenic or tumorigenic effects

**NIOSH/RTECS No.** LY8990000

**The toxicological properties of this product have not been thoroughly investigated.**

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## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Toxicity to fish.  
LC50 - Oncorhynchus mykiss (rainbow trout) – 150.0 mg/L – 96 hr

**Persistence and degradability** No data available

**Bioaccumulative potential** No data available

**Mobility in soil** No data available

**Other adverse effects** No data available

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## 13. DISPOSAL CONSIDERATIONS

**Disposal procedure** Dispose in accordance with all applicable government, state, and environmental chemical safety practices.

**EPA hazardous waste number** No data available

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## 14. TRANSPORT INFORMATION

**UN number** ADG: Non-Dangerous Goods  
IMDG: Non-Dangerous Goods  
IATA: Non-Dangerous Goods

**Proper shipping/technical name** Non-Dangerous Goods.

**Hazard Class** No data available

**Packing group** No data available

**Environmental hazards** No data available

**Special precautions** No data available

**Hazchem** Non-Dangerous Goods

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## 15. REGULATORY INFORMATION

### Notification Status

Australia (AICS): Listed

New Zealand (NZIoC): Not determined

USA (TSCA): Listed

SARA TITLE III: Section 302 (EHS) Ingredients: No  
Section 313 Ingredients: No

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Section 304 (EHS/CERCLA) Ingredients:  
Section 311/312 Hazard:

No  
Acute health hazard.

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**16. OTHER INFORMATION**

HMIS Rating:	Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
	2		0	0
NFPA Rating:	Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
	2	0	0	

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