

## 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

### Product Identifiers

Product Name: Indole-3-butyric Acid Solution (1 mg/mL)  
Product Number: I460

### Other means of identification

Synonyms: IBA; 4-[3-Indolyl]butyric Acid

**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

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

## 2. HAZARD(S) IDENTIFICATION

**GHS Classification** Acute toxicity (Category 3)  
Skin Irritation (Category 2)  
Serious Eye Damage/Eye irritation (Category 2/2A)  
Specific target organ toxicity – Single exposure (Category 3) – respiratory system  
Acute aquatic toxicity (Category 3)  
Chronic aquatic toxicity (Category 3)

### GHS Label elements, including precautionary statements

Pictogram:  Signal Word: **DANGER**



**Hazard Statement(s)** H301 – Toxic if swallowed  
H315 – Causes skin irritation  
H318 – Causes serious eye damage  
H335 – May cause respiratory irritation  
H412 – Harmful to aquatic life with long lasting effects

### Precautionary statement(s)

Prevention: P261 – Avoid breathing dust  
P264 – Wash hands thoroughly after handling.  
P271 – Use only outdoors or in a well-ventilated area  
P270 – Do not eat, drink or smoke when using this product

P273 – Avoid release into the environment.  
P280 – Wear protective gloves/eye protection/face protection.

Response: P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician  
P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P312 – Call a POISON CENTRE or doctor/physician if you feel unwell.  
P330 – Rinse Mouth  
P332 + P313 - If skin irritation occurs: Get medical advice/attention  
P362 – Take off contaminated clothing and wash before reuse.  
P391 – Collect spillage

Storage: P403 + P233 – Store in a well-ventilated place. Keep container tightly closed.  
P405 – Store locked up.

Disposal: P501 – Dispose contents/container to an approved chemical waste facility

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### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

CAS Number: 133-32-4 EC Number: 205101-5  
Formula:  $C_{12}H_{13}NO_2$  Molecular Weight: 203.24 g/mol

INGREDIENT	CAS NUMBER	PERCENTAGE	HAZARDOUS
Indole-3-butyric Acid	133-32-4	0.1%	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	94-99%	No exposure limits established by OSHA or ACGIH

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### 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

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### 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: No data available.

Toxic gases produced: No data available.

### 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.

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## 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.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### Methods and materials for containment and cleanup

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). Flush spill area with water. Do not let product enter drain.

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## 7. HANDLING AND STORAGE

### Precautions for safe handling

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.

### Conditions for safe storage

Keep in a tightly closed container and store in a cool, dry and well ventilated area.

### Recommended Storage Temperature

-20 to 0°C

### Incompatibilities

No data available.

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure control measures

Australian Exposure Standards (TWA;STEL): Potassium hydroxide 1310-58-3: TWA 2 mg/m<sup>3</sup> (peak limitation)

OSHA's permissible exposure limits (PEL's): No data available

ACGIH threshold limit values (TLV's): Potassium hydroxide 1310-58-3: 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>	Colourless clear liquid.
<b>Odour</b>	Odourless
<b>Odour threshold</b>	No data available
<b>pH (0.001 ml/L)</b>	>10.0
<b>Melting point</b>	No data available
<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
<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>	Miscible with water.
<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

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## 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>	No data available.
<b>Incompatible materials</b>	No data available.
<b>Hazardous decomposition products</b>	No data available

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## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	LD <sub>50</sub> (Oral, Rat)(mg/Kg):	No data available
	LD <sub>50</sub> (IP, Mouse)(mg/Kg):	No data available
	LD <sub>50</sub> (Oral, Mouse)(mg/Kg):	100
<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:	Inhalation – may cause respiratory irritation
	Repeated Exposure:	No data available
<b>Aspiration hazard</b>	No data available	
<b>Target organs</b>	None identified.	
<b>Medical conditions aggravated by exposure</b>	No data available	
<b>Routes of entry</b>	Inhalation, ingestion, skin and eye contact.	
<b>Symptoms associated with overexposure</b>	Irritation, sneezing, gastrointestinal upset, nausea, vomiting, possible mutagenic and tumorigenic effects.	
<b>NIOSH/RTECS No.</b>	NL5250000	

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

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## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	No data available
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Other adverse effects</b>	No data available

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## 13. DISPOSAL CONSIDERATIONS

<b>Disposal procedure</b>	Dispose in accordance with all applicable government, state, and environmental chemical safety practices.
<b>EPA hazardous waste number</b>	No data available.

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## 14. TRANSPORT INFORMATION

<b>UN number</b>	ADG: Non-Dangerous Goods IMDG: Non-Dangerous Goods IATA: Non-Dangerous Goods
<b>Proper shipping/technical name</b>	Non-Dangerous Goods
<b>Hazard Class</b>	No data available
<b>Packing group</b>	No data available
<b>Environmental hazards</b>	No data available

**Special precautions**

No data available

**Hazchem**

Non-Dangerous Goods

**15. REGULATORY INFORMATION****Notification Status**

Australia (AICS): Listed

New Zealand (NZIoC): Not determined

USA (TSCA): Not listed

SARA TITLE III: Section 302 (EHS) Ingredients: No  
 Section 313 Ingredients: No  
 Section 304 (EHS/CERCLA) Ingredients: No  
 Section 311/312 Hazard: No SARA hazards

**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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