SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME:	Indole-3-butyric Acid Solution (1 mg/mL)
SKU NUMBER:	IBA100
COMPANY INFO:	Plant Cell Technology, Inc. 1601 Connecticut Ave NW, Suite 400,Washington, DC 20009 Phone: +1 (202) 506-5608 www.plantcelltechnology.com
EMERGENCY PHONE NUMBER (INFOTRAC):	1-800-535-5053 - US Only 1-352-323-3500 - International
RECOMMENDED USE:	For Research Use Only Products sold by Plant Cell Technology are intended for research and laboratory use only.
RESTRICTIONS ON USE:	Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticide products, food additives, or as household chemicals.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

GHS Classification:

H301 – Acute toxicity (Category 3)
H315 – Skin irritation (Category 2)
H319 – Eye irritation (Category 2A)
H335 – Specific target organ toxicity – single exposure (Category 3) – Respiratory system.
H402 – Acute aquatic toxicity (Category 3)
H412 – Chronic aquatic toxicity (Category 3)

GHS Label elements, including hazard and precautionary statements:

Pictogram: 

Signal Word: Danger

Hazard Statements:

H301 – Toxic if swallowed
H315 – Causes skin irritation.
H319 – Causes serious eye irritation.
H335 – May cause respiratory irritation.
H412 – Harmful to aquatic life with long lasting effects.

Precautionary Statements:

P261 – Avoid breathing vapor/mist
P273 – Avoid release to the environment.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302 + P352 + IF ON SKIN: Wash with plenty of soap and water
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 – Dispose of contents with an approved waste disposal plant

Hazards not otherwise classified (HNOC) or not covered by GHS: - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms:	IBA; 4-[3-Indolyl]butyric Acid
CAS No.:	133-32-4
Formula:	$C_{12}H_{12}NO_2$

Molecular Weight: 203.24 g/mol

EC No.: 205-101-5

Ingredient	CAS Number	Percent	Hazardous
Indole-3-butyric Acid	133-32-4	0.1 %	No exposure limits established by OSHA or ACGIH

4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Route of Entry	Symptoms	First Aid Procedures
Ingestion	May cause irritation if swallowed	If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. **Get medical attention.**
Inhalation	May cause irritation to respiratory tract	Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. **Get medical attention.**
Eye Contact	Direct contact may cause irritation. May cause redness, tearing, or blurred vision.	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. **Get medical attention if irritation persists.**
Skin Contact	Irritating. May cause reddening, itching or inflammation.	Wash area thoroughly with soap and water. Remove and wash contaminated clothing. **Get medical attention if irritation persists.**

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or alcohol-resistant foam. Use extinguishing media suitable for surrounding fire.

Special Protective Equipment and Precaution for Firefighters: In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: No data available

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

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

Method of Containment and Cleanup: Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water. Do not let products enter drains.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid incompatible substances. Wash thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area. Protect from moisture as this material may be hygroscopic.

Incompatibilities: No data available

Recommended Storage Temperature: -20°C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

Threshold Limit Values (TLVs): No data available

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection:	Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.
Skin Protection:	Protective gloves
Body Protection:	Lab coat
Respiratory Protection:	Wear appropriate dust mask. A NIOSH/MSHA approved air purifying respirator is recommended where airborne concentrations are expected to exceed exposure limits. Protection provided by purifying respirators is limited.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear solution
pH (0.001 g/L):	>10.0
Solubility:	Miscible in water
Melting Range:	No data available
Vapor Density:	No data available
Vapor Pressure:	No data available
Specific Gravity:	No data available
Odor:	No data available
Odor Threshold:	No data available
Viscosity:	No data available
Relative Density:	No data available
Evaporation Rate:	No data available
Initial Boiling Point and Boiling Range:	No data available
Flammability (solid, gas):	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available
Flash Point (Closed Cup):	No data available
Flammable Limits:	Upper (%) – No data available Lower (%) – No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use

Possibility of Hazard Reactions: No data available

Conditions to Avoid: No data available

Incompatibles Materials: No data available

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, nitrogen oxides, potassium oxides

11. TOXICOLOGICAL INFORMATION

Toxicity (raw material):	LD_{50} (Oral-Rat)(mg/Kg):	No data available
	LD_{50} (Oral-Mouse)(mg/Kg):	100
	LD_{50} (IP-Mouse)(mg/Kg):	No data available

Carcinogenicity:	NTP:	No
	IARC:	No
	OSHA Reg:	No

Reproductive Toxicity:	No data available	
Specific Target Organ Toxicity:	Single Exposure:	Inhalation - May cause respiratory irritation
	Repeated Exposure:	No data available
Target Organs:	No data available	
Routes of Entry:	Ingestion, inhalation, skin and eye contact	
NIOSH/RTECS NO:	NL5250000	

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity (raw material):	LC50 – Oncorhynchus mykiss (rainbow trout) - >90.5 mg/L – 96 hrs EC50 – Daphnia magna (water flea) - 57 mg/L – 48 hrs
Persistence and Degradability:	No data available
Bioaccumulative Potential:	No data available
Mobility in Soil:	No data available
Other Adverse Effects:	Harmful to aquatic life.

13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental regulations.

14. TRANSPORT INFORMATION

Domestic (D.O.T.):	Proper Shipping Name:	Toxic solids, organic, n.o.s. (4-(Indol-3-yl)butyric acid)		
	Hazard Class:	6.1		
	UN:	2811	Packing group: III	
	Marine pollutant:	No		
International:				
IMDG:	Proper Shipping Name:	Toxic solids, organic, n.o.s. (4-(Indol-3-yl)butyric acid)		
	Hazard Class:	6.1		
	UN:	2811	Packing group: III	EMS-No.: F-A, S-A
	Marine pollutant:	No		
IATA:	Proper Shipping Name:	Toxic solids, organic, n.o.s. (4-(Indol-3-yl)butyric acid)		
	Hazard Class:	6.1		
	UN:	2811	Packing group: III	

15. REGULATORY INFORMATION

TSCA:	Yes
SARA TITLE III:	
Section 302 (EHS) Ingredients:	No
Section 313 Ingredients:	No
Section 304 (EHS/CERCLA) Ingredients:	No
Section 311/312 Hazard:	Acute Health Hazard
Massachusetts Right to Know Components:	This product is not on the Massachusetts Toxic or Hazardous Substance List (301 CMR 41.00).
Pennsylvania Right to Know Components:	This product is not listed on the Pennsylvania Code's Hazardous Substance List (Chapter 323).
New Jersey Right to Know Components:	This product is not listed amongst the New Jersey Right to Know Hazardous Substance Fact Sheets.
California Prop. 65 Components:	This product is not known to the State of California to cause cancer or reproductive toxicity.

16. OTHER INFORMATION

HMIS Rating:

Health Hazard	Flammability	Physical Hazard	Personal Protection
2	0	0	B

NFPA Rating:

Health Hazard	Fire Hazard	Instability	Special Hazard
2	0	0	

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