SAFETY DATA SHEET



1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME:	Indole-3-butyric Acid			
SKU NUMBER:	IBA			
COMPANY INFO:	Plant Cell Technology Inc 1601 Connecticut Ave, Suite 400, Washington DC 20009 +1 (202) 506-5608 www.plantcelltechnology.com			
EMERGENCY PHONE NUMBER: 1-202-621-5490 - US				
RECOMMENDED USE:	For Research Use Only			
RESTRICTIONS ON USE:	Products sold by Plant Cell Technology 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.			

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:



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.

Signal Word: Danger

Precautionary Statements:

P261 – Avoid breathing dust.
P273 – Avoid release to the environment.
P280 – Wear protective clothing/protective gloves/eye protection.
P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

No exposure limits established by OSHA or ACGIH

3. COMPOSITION/INFORMATION ON INGREDIENTS

133-32-4

Ingredient	ŧ	CAS Number	Percent	Hazardous
EC No.:	205-101-5			
Molecular Weight:	203.24			
Formula:	C ₁₂ H ₁₃ NO	2		
CAS No.:	133-32-4			
Synonyms:	IBA; 4-[3-	Indolyl]butyric Aci	id	

>98 %

Indole-3-butyric Acid

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 Symp	otoms 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:	May emit toxic fumes under fire conditions.
Toxic Gases Produced:	Carbon monoxide, carbon dioxide, nitrogen oxides

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection 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. Discharge into the environment must be avoided.
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:	Strong oxidizing agents, alkalis
Recommended Storage Temperature:	2 to 8 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (F	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):	
2	Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.
Skin Protection: P	Protective gloves

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:	Cream to Tan Powder					
pH (0.001 g/L):	Under De	Under Development (8.5-10.5 suspected range) (solvent dependent)				
Solubility:	Soluble in	n NaOH or KOH				
Melting Range:	123-125	°C				
Vapor Density:	No data a	vailable				
Vapor Pressure:	No data a	vailable				
Specific Gravity:	No data a	vailable				
Odor:	Slight cha	aracteristic odor				
Odor Threshold:	No data a	vailable				
Viscosity:	No data a	No data available				
Relative Density:	No data a	vailable				
Evaporation Rate:		No data available				
Initial Boiling Point Boiling Range:	t and	No data available				
Flammability (solid	nability (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:	Will not occur
Conditions to Avoid:	Excessive heat, moisture
Incompatibles Materials:	Strong oxidizing agents, alkalis
Hazardous Decomposition Products:	Carbon dioxide, carbon monoxide, nitrogen oxides, potassium oxides

11. TOXICOLOGICAL INFORMATION

Toxicity:	LD ₅₀ (Oral-Rat)(mg/Kg):			>500
	LD ₅₀ (Oral-Mouse)(mg/Kg):		g):	100
	LD ₅₀ (IP-Mouse)(mg/Kg):		:	100
Carcinogenicity:	NTP:	No		
	IARC:	No		
	Z List:	No		
	OSHA Reg:	No		
Reproductive Toxicity:	No data availab	ole		
Symptoms Associated with Overexposure:	Irritation, itchir cases death, cer			pset, nausea, vomiting, possible mutagenic effects, in extreme depression.
Specific Target Organ	Single Exposur	re:	Inhalatio	on – may cause respiratory irritation.
Toxicity:	Repeated Expo	sure:	No data	available
Target Organs:	None identified	l		
Medical Conditions Aggravated By Exposure:	None identified	l		
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:	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.

EPA Hazardous Waste Number: No data available

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		
	Poison Inhalation hazard:	No		
International:				
IMDG:	Proper Shipping Name:	Toxic solids, org	ganic, n.o.s. (4-(Indol-3-yl)buty	yric 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	ic 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:		No components are subject to the Massachusetts Right to Know Act. \square			
Pennsylvania Right to Know Components:		CAS No.: 133-32-4 4-(Indol-3-yl)butyric acid			
New Jersey Right to Know Components:		CAS No.: 133-32-4 4-(Indol-3-yl)butyric acid			
California Prop. 65 Components:		This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.			

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	

Plant Cell Technology provides the information contained herein in good faith but makes no

representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. Plant Cell Technology shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs,

cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

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