Indole-3-butyric Acid (IBA)	
Safety Data Sheet	**CN-I002-SDS**

1. Identification

Production Name: Indole-3-butyric Acid (IBA)

Catalog Number: CN-I002

Company: Plant Cell Technology

Address: 836 South 100 East, Smithfield UT 84335

Telephone: 435.534.8700

Emergency Contact, US: CHEMTREC 800.424.9300 (24/7)

Emergency Contact, International: CHEMTREC 703.527.3887 (24/7)

Recommended Use: For research and laboratory use only.

Restrictions on Use: This product is intended for research and laboratory use only. This product is not to be used as human or animal therapeutics, cosmetics, pesticidal products, food additives, or 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 - Respiratory System (Category 3)

H412 - Chronic Aquatic Toxicity (Category 3)

GHS Label Elements, Including Precautionary Statements

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 dust/fume/gas/mist/vapors/spray.

P264 – Wash hands thoroughly after handling.

P270 – Do not eat, drink or smoke when using this product.

P271 – Use only outdoors or in a well-ventilated area.

P273 – Avoid release to the environment.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P312 – Call a POISON CENTER or doctor if you feel unwell.

P362 – Take off contaminated clothing.

P301+P310+P330 – IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse Mouth

P302+P352 – IF ON SKIN: Wash with plenty of soap and water.

P304+P340 – IF INHALED: Remove person to fresh air and keep 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.

P332+P313 – IF SKIN irritation occurs: Get medical advice/attention.

P337+P313 – IF eye irritation persists: Get medical advice/attention.

P405 – Store locked up.

P403+P233 – Store in a well-ventilated place. Keep container tightly closed.

P501 – Dispose of contents/container to appropriate waste containers.

Pictograms:



3. Composition / Information on Ingredients.

Synonyms: IBA

Formula: $C_{12}H_{13}NO_2$

Molecular Weight: 203.24 g/mol

CAS-No: 133-32-4

EC-No: 205-101-5

Component	CAS Number	EC Number	Concentrations (%, w/w)	Classification
Indole-3-Butyric Acid	133-32-4	205-101-5	≥ 98%	Acute toxicity, oral 3; Skin irritation 2; Serious eye damage 2A; Specific target organ toxicity, single exposure, respiratory tract irritation 3; Hazardous to aquatic environment, long-term 3: H301; H315; H319; H335; H412

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 Exposure

If Swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention.

In Case of Skin Contact: Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation persists.

In Case of Eye Contact: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Ensure adequate flushing by separating the eyelids. Get medical attention if irritation persists.

If Inhaled: Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway. Get medical attention.

Most Important Symptoms and Effects, Both Acute and Delayed: The most important known symptoms and effects are described in Section 2 (Hazards Identification) and/or in Section 11 (Toxicological Information).

Recommendation for Immediate Medical Care and Special Treatment Needed: No Data Available

5. Firefighting Measures

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media: No Data Available

Special Protective Equipment and Precautions for Firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Special Hazards Arising from the Substance or Mixture: Carbon oxides, Nitrogen oxides

Combustible.

Additional Information: No Data Available

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. See Section 2 (Hazards Identification) for more information.

Methods and Material for Containment and Cleanup: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. Handling and Storage

Precautions for Safe Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

Recommended Storage Temperature: 2° to 8°C

Incompatibilities: Strong oxidizing agents, Strong bases

8. Exposure Controls / Personal Protection

OSHA Permissible Exposure Limits (PELs): Contains no substances with occupational exposure limit values.

ACGIH Threshold Limit Values (TLVs): Contains no substances with occupational exposure limit values.

Engineering Controls: Practice general industrial hygiene. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment (PPE):

Eye/Face Protection: Face shield or appropriate safety glasses. Use equipment for eye protection tested and approved under appropriate standards.

Skin Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate standards.

Body Protection: Wear lab coat, gown, or coveralls to protect from exposure.

9. Physical and Chemical Properties

Appearance: Off-White to Beige Powder

Boiling Point, Initial: No Data Available

Boiling Range: No Data Available

Evaporation Rate: No Data Available

Flammability (Solid, Gas): No Data Available

Flammability Lower Limit: No Data Available

Flammability Upper Limit: No Data Available

Odor: No Data Available

Odor Threshold: No Data Available

Partition Coefficient: log Pow: 2.30 – Bioaccumulation is not expected.

pH: No Data Available

Relative Density: No Data Available

Solubility: Soluble in Water

Specific Gravity: No Data Available

Flash Point: No Data Available

Freezing Point: No Data Available

Melting Point: 122 - 125°C (252 - 257°F)

Melting Range: No Data Available

Temperature, Auto-Ignition: No Data Available

Temperature, Decomposition: No Data Available

Vapor Density: No Data Available

Vapor Pressure: No Data Available

Viscosity: No Data Available

10. Stability and Reactivity

Reactivity: No Data Available

Chemical Stability: Stable under recommended storage conditions.

Possibilities of Hazardous Reactions: Violent reactions possible with strong oxidizing agents, Strong bases

Conditions to Avoid: No Data Available

Incompatible Materials: Strong oxidizing agents, Strong bases

Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions. – Carbon oxides, Nitrogen oxides

In the event of fire, see Section 5 (Firefighting Measures).

11. Toxicological Information

Toxicity: LD_{50} Oral – Mouse: 100 mg/kg

Germ Cell Mutagenicity – Ames test – Salmonella typhimurium – with and without metabolic activation – Result: Negative – Remarks: Lit.

Carcinogenicity:

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity: No Data Available

Immediate Effects of Exposure: No Data Available

Delayed Effects of Exposure: No Data Available

Chronic Effects of Short Term Exposure: No Data Available

Chronic Effects of Long Term Exposure: No Data Available

Symptoms Associated with Overexposure: No Data Available

Specific Target Organ Toxicity – Single Exposure: No Data Available

Specific Target Organ Toxicity – Repeated Exposure: No Data Available

Target Organs: None Identified

Medical Conditions Aggravated by Exposure: None Identified

Likely Routes of Exposure:

Eye Contact: Causes serious eye irritation

Ingestions: Toxic if swallowed

Inhalation: May cause respiratory irritation

Skin Contact: Causes skin irritation

NIOSH/RTECS: NL5250000

12. Ecological Information

Toxicity: No Data Available

Persistence and Degradability: Readily biodegradable.

Bioaccumulative Potential: No Data Available

Mobility in Soil: No Data Available

Results of PBT and vPvB: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other Adverse Effects: No Data Available

13. Disposal Considerations

Disposal of Product: Dispose in accordance with all applicable federal, state, and local environmental regulations. See Section 2 (Hazards Identification) for additional guidelines in disposals.

Disposal of Packaging: Dispose of as unused product.

14. Transport Information

DOT (US):

Proper Shipping Name: TOXIC SOLID, ORGANIC, N.O.S. (INDOLE-3-BUTYRIC ACID)

UN/NA number: 2811 Class: 6.1 Packaging group: III Hazard Label: Toxic

Reportable Quantity (RQ): N/A

Poison Inhalation Hazard: N/A

IMDG:

Proper Shipping Name: TOXIC SOLID, ORGANIC, N.O.S. (INDOLE-3-BUTYRIC ACID)

UN number: 2811 Class: 6.1 Packaging group: III Hazard Label: Toxic

IATA:

Proper Shipping Name: TOXIC SOLID, ORGANIC, N.O.S. (INDOLE-3-BUTYRIC ACID)

UN Number: 2811 Class: 6.1 Packaging group: III Hazard Label: Toxic

15. Regulatory Information

TSCA: Listed

SARA Title lll:

Section 302 (EHS) Ingredients: None

Section 304 (EHS/CERCLA) Ingredients: None

Section 311/312 Hazard: Acute Health Hazard

Section 313 Ingredients: None

16. Other Information

Further Information: All chemicals may pose unknown hazards and should be used with caution. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Plant Cell Technology, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.

CN-I002-SDS Revision Change Summary:

Rev.	Date	CR#	Approved	Change description
00	30-May-25	0115	C. Gallagher	New Document