

Date: Apr.3rd, 2025

## SAFETY DATA SHEET

### 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: 3-INDOLEBUTYRIC ACID

COMPANY INFO: HEBEI JRRAIN TECHNOLOGY CO.,LTD.  
No. 66 XIANGTAI ROAD, YUHUA DISTRICT, SHIJIAZHUANG  
CITY, HEBEI PROVINCE, CHINA

### 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 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.

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

Molecular Weight: 203.24

EC No.: 205-101-5

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Ingredient	CAS Number	Percen t	Hazardous
Indole-3-butyric Acid	133-32-4	>98 %	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. <b>Get medical attention.</b>
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. <b>Get medical attention.</b>
Eye Contact irritation.	Direct contact may cause  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. <b>Get medical attention if irritation persists.</b>
Skin Contact	Irritating. May cause reddening, itching or inflammation.	Wash area thoroughly with soap and water. Remove and wash contaminated clothing. <b>Get medical attention if irritation persists.</b>

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
Toxic Gases Produced:	Carbon oxides, 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.

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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:	2-8°C

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs):	None
Threshold Limit Values (TLVs):	None
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:	Cream to Tan Powder
pH (0.001 g/L):	No data available
Solubility:	Soluble in NaOH or KOH
Melting Range:	123-125 °C
Vapor Density:	No data available
Vapor Pressure:	No data available
Specific Gravity:	No data available
Odor:	Slight characteristic odor
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: Strong oxidizing agents, alkalis

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides

### 11. TOXICOLOGICAL INFORMATION

Toxicity: LD<sub>50</sub> (Oral-Rat)(mg/Kg): No data available  
LD<sub>50</sub> (Oral-Mouse)(mg/Kg): 100  
LD<sub>50</sub> (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: None identified

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: No data available

### 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)

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## Hebei JRain Technology Co., Ltd.

Hazard Class: 6.1  
 UN: 2811 Packing group: III  
 Marine pollutant: No  
 Poison Inhalation hazard: 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:** No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right to Know Components:** No components are subject to the Pennsylvania Right to Know Act.

**New Jersey Right to Know Components:** No components are subject to the New Jersey Right to Know Act.

**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	Flammability	Physical Hazard	Personal Protection
2	0	0	B
Health Hazard	Fire Hazard	Instability	Special Hazard
2	0	0	

NFPA Rating:

