



INDOLE-3-BUTYRIC ACID

1. Product Identification

Synonyms: 1H-Indole-3-butanoic acid; 3-indolebutyric acid CAS No.: 133-32-4 Molecular Weight: 203.24 Chemical Formula: C12H13NO2 Product Codes: N901

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous	
Indole-3-butyric Acid	133-32-4	100%	Yes	

3. Hazards Identification

Emergency Overview

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

J.T. Baker SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate Flammability Rating: 1 - Slight Reactivity Rating: 1 - Slight Contact Rating: 2 - Moderate Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES Storage Color Code: Orange (General Storage)

Potential Health Effects

Information on the human health effects from exposure to this substance is limited.

Inhalation: Excessive inhalation of dust is irritating to the respiratory tract. Ingestion: Animal toxicology indicates the substance is toxic. Human health effects from ingestion unknown. Skin Contact: Causes skin irritation. Eye Contact: Causes irritation. Chronic Exposure: No information of Dre-existing Conditions: No information found.

4. First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention. Skin Contact:

Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before re-use. **Eve Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire: Not expected to be a fire hazard. Explosion: No information found. Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire. Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

 None established.

 Ventilation System:

 A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

 Personal Respirators (NIOSH Approved):

 For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.
 Skin Protection:

 Wear protectione:
 Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: White to light yellow crystals. Odor: Slight characteristic odor. Solubility: Negligible. Specific Gravity: No information found. pH: No information found. % Volatiles by volume @ 21C (70F): < 1 **Boiling Point:** Decomposes **Melting Point:** 125C (257F) Vapor Density (Air=1): 7.0 Vapor Pressure (mm Hg): No information found. Evaporation Rate (BuAc=1): No information found

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage. Hazardous Decomposition Products: Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides. Hazardous Polymerization: Will not occur. Incompatibilities: Strong oxidizers. Conditions to Avoid: Light, heat, incompatibles.

11. Toxicological Information

Oral mouse LD50: 100 mg/Kg Investigated as a mutagen.

\Cancer Lists\			
	NTP	Carcinogen	
Ingredient	Known	Anticipated	IARC Category
Indole-3-butyric Acid (133-32-4)	No	No	None

12. Ecological Information

Environmental Fate:
No information found.
Environmental Toxicity:
No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

\Chemical Inventory Status - Part Ingredient		TSCA	EC	Japan	Australia
Indole-3-butyric Acid (133-32-4)					Yes
\Chemical Inventory Status - Part	2\			anada	
Ingredient			a DSL	NDSI	Phil.
Indole-3-butyric Acid (133-32-4)				No	
\Federal, State & International Re	-SARA RQ	. 302- TPQ	 Li	SAF st Che	A 313 mical Catg.
Indole-3-butyric Acid (133-32-4)					
\Federal, State & International Re	Regulations · CERCLA		-RCRA		SCA-
Indole-3-butyric Acid (133-32-4)	No	-	No	h	lo

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No Reactivity: No (Pure / Solid)

Australian Hazchem Code: 2(Z) Poison Schedule: None allocated. WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 2 Flammability: 0 Reactivity: 0 Label Hazard Warning: WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. Label Precautions: Do not breathe dust. Avoid contact with eyes, skin and clothing. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Label First Aid: In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. In case of contact, immediately flush skin with plenty of water for at least 15 minutes. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, call a physician immediately. Product Use: Laboratory Reagent. **Revision Information:** No Changes. Disclaimer: ************************* Mallinckrodt Baker, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. MALLINCKRODT BAKER, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MALLINCKRODT BAKER, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION. ************

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