

# Safety Data Sheet Version 3.10 Revised: 2016-05-02

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

**Product Name** Indole-3-butyric acid

Other means of identification

Product Code(s) A4170

**Synonyms** No information available

**Product Use** For Laboratory Research Use Only.

Supplier/Manufacturer

**Biomatik Corporation** 9-140 McGovern Dr.

Cambridge, Ontario N3H 4R7

Canada

1-519-489-7195 **Telephone Number** E-mail Address info@biomatik.com

**Emergency Telephone Number** Chemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

## Classification

# **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute Toxicity - Oral	Category 3
Skin irritation	Category 2
Eye irritation	Category 2 A

#### Label elements

**Emergency Overview** 

## **Danger**

## Hazard statements

H301 - Toxic if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation



Appearance Beige

Physical State Powder

Odor No information available

# **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

## Catalog No. A6218 L-Lysine, Monohydrochloride

**Precautionary Statements - Response** 

IF exposed or concerned: Get medical advice/attention IF IN EYES: Rinse cautiously with water for several minutes

IF SWALLOWED: Immediatelt call a POISON CENTER or doctor/physician

**Precautionary Statements - Storage** 

Store in a well-ventilated place. Keep container tightly closed Store locked up

**Precautionary Statements - Disposal** 

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not regulated

Other Information

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	EC No.	Weight %	Trade Secret
Indole-3-butyric acid	133-32-4	205-101-5	95-100	Not applicable

# 4. FIRST AID MEASURES

**First Aid Measures** 

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes.

**Inhalation** Move to fresh air. If not breathing, give artificial respiration.

**Ingestion** Never give anything by mouth to an unconscious person. Rinse mouth.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Unsuitable Extinguishing Media No information available.

**Specific Hazards Arising from the Chemical** 

No information available.

**Hazardous Combustion** 

Carbon oxides. Nitrogen oxides (NOx).

**Products** 

**Explosion Data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None. **Protective Equipment and Precautions for Firefighters** 

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

Personal protection Use personal protective equipment as required. Keep people away from and upwind of

spill/leak. Evacuate personnel to safe areas.

**Environmental Precautions** 

**Environmental Precautions** See Section 12 for additional Ecological information.

Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area

and wash spill site after material pickup is complete.

# 7. HANDLING AND STORAGE

# **Precautions for Safe Handling**

Handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Products No information.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Control parameters**

**Exposure Guidelines**This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Indole-3-butyric acid	-	-	-

## **Appropriate engineering controls**

Engineering Measures Showers

Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Safety glasses with side-shields.

**Skin and Body Protection** Wear protective gloves/clothing.

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

No information available

No information available

**Hygiene Measures** 

Handle in accordance with good industrial hygiene and safety practice.

Odor

**Odor Threshold** 

Remarks • Method

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical State
Appearance
Color
Solid
Powder
Beige

Deige

Property Values
No information available

Melting point/freezing point 125.5 °C

Boiling Point/Range No information available Flash Point (High in °C) No information available Evaporation Rate No information available Flammability (solid, gas) No information available

Flammability Limit in Air

**Upper flammability limit:** No information available Lower flammability limit: No information available Vapor pressure No information available Vapor Density No information available **Specific Gravity** No information available **Water Solubility** No information available Solubility in other solvents No information available Partition coefficient No information available **Autoignition Temperature** No information available **Decomposition Temperature** No information available Kinematic viscosity No information available Dynamic viscosity No information available **Explosive Properties** No information available **Oxidizing Properties** No information available

**Other Information** 

Softening PointNo information availableMolecular WeightNo information availableVOC ContentNo information availableDensityNo information availableBulk DensityNo information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

# **Chemical Stability**

May form explosive peroxides.

## **Possibility of Hazardous Reactions**

None under normal processing.

#### **Conditions to Avoid**

Extremes of temperature and direct sunlight

## **Incompatible Materials**

Strong oxidizing agents.

## **Hazardous Decomposition Products**

Carbon oxides. Nitrogen oxides (NOx). Phosgene.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

#### **Product Information**

**Inhalation** There is no data available for this product.

**Eye Contact** There is no data available for this product.

**Skin Contact** There is no data available for this product.

**Ingestion** There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Indole-3-butyric acid	100mg/kg (mouse)	-	-

## Information on toxicological effects

**Symptoms** No information available.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

SensitizationNo information available.Mutagenic EffectsNo information available.CarcinogenicityNo information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Indole-3-butyric acid	-	-	-	-

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Target Organ Effects
Aspiration hazard
No information available.
No information available.
No information available.
No information available.

# Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

## 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Toxicity to Fish	Crustacea
Indole-3-butyric acid	-	LC50 - Oncorhynchus mykiss	-
-		(rainbow trout) - > 90.5 mg/l	

## Persistence and Degradability

No information available.

## **Bioaccumulation/Accumulation**

No information available.

Chemical Name	Partition coefficient
Indole-3-butyric acid	-

Other Adverse Effects No information available

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

**Contaminated Packaging** Do not re-use empty containers.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Indole-3-butyric acid	-	-	-	-

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Indole-3-butyric acid	-	-	-	-

Chemical Name	California Hazardous Waste Status
Indole-3-butyric acid	-

## 14. TRANSPORTINFORMATION

DOT

<u>UN/ID</u> no. 2811

Proper shipping name Toxic solids, organic, n.o.s. (4-(Indol-3-yl)butyric acid)

Hazard Class 6.1 Packing Group III

**IATA** 

UN/ID no. 2811

Proper shipping name Toxic solid, organic, n.o.s. (4-(Indol-3-yl)butyric acid)

Hazard Class 6.1 Packing Group III

# 15. REGULATORY INFORMATION

**WHMIS Classification** 

D1B Toxic Material Causing Immediate and Serious Toxic Effects Toxic by ingestion

D2B Toxic Material Causing Other Toxic Effects Moderate skin irritant

Moderate respiratory irritant

Moderate eye irritant

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations

# **16. OTHER INFORMATION**

#### **Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet** 

