Company

Emergency Phone #

Fax

## Material Safety Data Sheet Version 3.1

Concentration

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Revision Date 06/19/2009 Print Date 10/14/2009

### Product name Indole-3-butyric acid

1. PRODUCT AND COMPANY IDENTIFICATION

Product Number 15386

Brand Sigma

2149 Winston Park Drive OAKVILLE ON L6H 6J8 CANADA Telephone

: +1 9058299500 : +1 9058299292

: Sigma-Aldrich Canada, Ltd.

: 800-424-9300 2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms 4-(3-Indolyl)butanoic acid 4-(3-Indolyl)butyric acid

Formula : C<sub>12</sub>H<sub>13</sub>NO<sub>2</sub> : 203.24 g/mol Molecular Weight

CAS-No. EC-No.

133-32-4 205-101-5 3. HAZARDS IDENTIFICATION

Index-No.

Toxic by ingestion

Moderate skin irritant

# Serious Toxic Effects

WHMIS Classification

4-(Indol-3-yl)butyric acid

D1B

HMIS Classification 2 Health Hazard:

Toxic Material Causing Immediate and

Moderate respiratory irritant Moderate eye irritant 0 Flammability:

Physical hazards: 0 Potential Health Effects Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Skin May be harmful if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation. Ingestion Toxic if swallowed. Sigma - 15385

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4. FIRST AID MEASURES

General advice

In case of eye contact

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Flammable properties

no data available

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

Flash point Ignition temperature no data available Suitable extinguishing media

Evacuate personnel to safe areas.

Methods for cleaning up

7. HANDLING AND STORAGE

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Handling

Recommended storage temperature: 2 - 8 °C

### Hand protection Handle with gloves

Face shield and safety glasses

Skin and body protection Choose body protection according to the amount and concentration of the dangerous substance at the work

Contains no substances with occupational exposure limit values.

9. PHYSICAL AND CHEMICAL PROPERTIES Appearance Form powder

> no data available рΗ Melting point 124.0 - 125.5 °C (255.2 - 257.9 °F)

Flash point Ignition temperature Lower explosion limit

Boiling point

Storage stability Stable under recommended storage conditions. Materials to avoid

Acute toxicity

no data available Chronic exposure

IARC:

LD50 Oral - mouse - 100 mg/kg Irritation and corrosion

probable, possible or confirmed human carcinogen by IARC.

Causes eye irritation.

Toxic if swallowed.

Elimination information (persistence and degradability)

incinerator equipped with an afterburner and scrubber.

Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects

Other mutation test systems

Genotoxicity in vitro - Human - leukocyte

RTECS: NL5250000 12. ECOLOGICAL INFORMATION

no data available 13. DISPOSAL CONSIDERATIONS

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Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Marine pollutant: No IATA Packing group: III UN-Number: 2811 Class: 6.1

EMS-No: F-A, S-A

Toxic by ingestion

Moderate skin irritant Moderate respiratory irritant Moderate eye irritant

Packing group: III

WHMIS Classification

D2B

15. REGULATORY INFORMATION

IMDG

16. OTHER INFORMATION

Serious Toxic Effects

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a

guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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If inhaled If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician. In case of skin contact Wash off with soap and plenty of water. Consult a physician. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. 5. FIRE-FIGHTING MEASURES

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

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Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (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

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

### Wear self contained breathing apparatus for fire fighting if necessary. 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Special protective equipment for fire-fighters

Storage Keep container tightly closed in a dry and well-ventilated place.

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Keep in a dry place.

under appropriate government standards such as NIOSH (US) or CEN (EU).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment Respiratory protection

Eye protection

Hygiene measures Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the

no data available

no data available

no data available

no data available

Colour beige Safety data

Upper explosion limit no data available no data available Water solubility 10. STABILITY AND REACTIVITY

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

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No component of this product present at levels greater than or equal to 0.1% is identified as

May be harmful if inhaled. Causes respiratory tract irritation.

May be harmful if absorbed through skin. Causes skin irritation.

LC50 - Oncorhynchus mykiss (rainbow trout) - > 90.5 mg/l - 96 h

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EC50 - Daphnia magna (Water flea) - 57 mg/l - 48 h

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11. TOXICOLOGICAL INFORMATION

Strong oxidizing agents, Strong bases Hazardous decomposition products

no data available Sensitisation

Additional Information

no data available

Ecotoxicity effects Toxicity to fish

Toxicity to daphnia

Further information on ecology

and other aquatic invertebrates.

Inhalation

Skin

Eyes Ingestion

Product Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical

UN-Number: 2811 Class: 6.1 Packing group: III Proper shipping name: Toxic solids, organic, n.o.s. (4-(Indol-3-yl)butyric acid) Marine pollutant: No Poison Inhalation Hazard: No

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

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (4-(Indol-3-yl)butyric acid)

DSL Status All components of this product are on the Canadian DSL list. D1B Toxic Material Causing Immediate and

UN-Number: 2811 Class: 6.1

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