



# Material Safety Data Sheet

Catalog Number: 102036  
Revision date: 25-Apr-2006

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 102036

Product name: INDOLE

Synonyms: 2,3-Benzopyrrole; 1-Azaindene; 1-Benzazole; Benzopyrrole

**Supplier:**

MP Biomedicals, LLC  
29525 Fountain Parkway  
Solon, OH 44139  
tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA Exposure Limits:
INDOLE	120-72-9	90 - 100%	None	None

## 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Harmful by inhalation, in contact with skin and if swallowed.

**Category of Danger:**

Harmful , STENCH , Lachrymator

**Principle routes of exposure:** Skin

**Inhalation:** Harmful by inhalation.

**Ingestion:** Harmful if swallowed.

**Skin contact:** Harmful in contact with skin.

**Eye contact:** Risk of serious damage to eyes

Vapors extremely irritating to eyes and respiratory tract

**ANSI Classification** Irritant - eye, skin, respiratory, Irritant - eye, severe

**Statements of hazard** HARMFUL IF SWALLOWED. MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR INHALED.

CAUSES EYE IRRITATION.

**Statement of Spill or Leak - ANSI Label** Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment.

**Statement of First Aid** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call a physician. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Call a physician. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. In case of contact, flush eyes with running water for at least 15 minutes. Consult a physician for irritation or any other symptom.

**Precautions - ANSI Label** Do not taste or swallow. Wash thoroughly after handling. Avoid contact with skin, eyes and clothing Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Avoid breathing vapors. Avoid prolonged or repeated contact with the skin, eyes or respiratory tract. Wash thoroughly after exposure.

#### 4. FIRST AID MEASURES

**General advice:** In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Inhalation:** Move to fresh air. Call a physician immediately.

**Skin contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician Remove and wash contaminated clothing before re-use Rinse immediately with plenty of water for at least 15 minutes Call a physician immediately

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

**Protection of first-aiders:** No information available

**Medical conditions aggravated by exposure:** None known

#### 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:**

Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam

**Specific hazards:**

Burning produces irritant fumes.

**Unusual hazards:**

None known

**Special protective equipment for firefighters:**

Wear self contained breathing apparatus for fire fighting if necessary.

**Specific methods:**

Water mist may be used to cool closed containers.

**Flash point:**

Not determined

**Autoignition temperature:**

Not determined

**NFPA rating:**

NFPA Health:	2
NFPA Flammability:	0
NFPA Reactivity:	0

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Use personal protective equipment.

**Environmental precautions:**

Do not flush into surface water or sanitary sewer system.

**Methods for cleaning up:**

Soak up with inert absorbent material.

#### 7. HANDLING AND STORAGE

**Storage:**

+4°C

**Handling:**

Use only in area provided with appropriate exhaust ventilation.

**Safe handling advice:**

Wear personal protective equipment. Remove and wash contaminated clothing before reuse.

**Technical measures/storage conditions:**

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

**Incompatible products:**

Oxidising and spontaneously flammable products

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures:** Ensure adequate ventilation.

### PERSONAL PROTECTIVE EQUIPMENT

**Respiratory protection:** Breathing apparatus only if aerosol or dust is formed.

**Hand protection:** Pvc or other plastic material gloves

**Skin and body protection:** Impervious clothing

**Eye protection:** Goggles

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance and Odor</b>	White to off-white crystalline
<b>Physical state:</b>	Powder
<b>Formula:</b>	C <sub>8</sub> H <sub>7</sub> N
<b>Molecular weight:</b>	117.1
<b>Melting point/range:</b>	47-52°C
<b>Boiling point/range:</b>	253-254°C
<b>Density:</b>	No data available
<b>Vapor pressure:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Vapor density:</b>	No data available
<b>Solubility (in water):</b>	Soluble
<b>Flash point:</b>	Not determined
<b>Autoignition temperature:</b>	Not determined

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Polymerization:</b>	None under normal processing.
<b>Hazardous decomposition products:</b>	Nitrogen oxides (NO <sub>x</sub> )/ammonia/CN-
<b>Materials to avoid:</b>	Strong oxidising agents
<b>Conditions to avoid:</b>	Exposure to air or moisture over prolonged periods.

## 11. TOXICOLOGICAL INFORMATION

### Product Information

#### Acute toxicity

Components  
INDOLE

**RTECS Number:**  
NL2450000

#### Selected LD50s and LC50s

Oral LD50 Rat : 1 gm/kg  
Dermal LD50 Rabbit : 790 mg/kg

<b>Chronic toxicity:</b>	Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.
<b>Local effects:</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
<b>Specific effects:</b>	May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.
<b>Primary irritation:</b>	No data is available on the product itself.
<b>Carcinogenic effects:</b>	No data is available on the product itself.
<b>Mutagenic effects:</b>	No data is available on the product itself.
<b>Reproductive toxicity:</b>	No data is available on the product itself.

## 12. ECOLOGICAL INFORMATION

**Mobility:** No data available  
**Bioaccumulation:** No data available  
**Ecotoxicity effects:** No data available  
**Aquatic toxicity:** May cause long-term adverse effects in the aquatic environment.

<b>Components</b>  INDOLE	<b>U.S. DOT - Appendix B - Marine Pollutan</b> Not Listed	<b>U.S. DOT - Appendix B - Severe Marine Pollutants</b> Not Listed	<b>United Kingdom - The Red List:</b> Not Listed
<b>Components</b>  INDOLE	<b>Germany VCI (WGK)</b> Not Listed	<b>World Health Organization (WHO) - Drinking Water</b> Not Listed	<b>Ecotoxicity - Fish Species Data</b> Not Listed
<b>Components</b>  INDOLE	<b>Ecotoxicity - Freshwater Algae Data</b> Not Listed	<b>Ecotoxicity - Microtox Data</b> Not Listed	<b>Ecotoxicity - Water Flea Data</b> Not Listed
<b>Components</b>  INDOLE	<b>EPA - ATSDR Priority List</b> Not Listed	<b>EPA - HPV Challenge Program Chemical List</b> Not Listed	<b>California - Priority Toxic Pollutants</b> Not Listed
<b>Components</b> INDOLE	<b>California - Priority Toxic Pollutants</b> Not Listed	<b>California - Priority Toxic Pollutants</b> Not Listed	

## 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

**Contaminated packaging:** Do not re-use empty containers  
**Methods for cleaning up:** Soak up with inert absorbent material.

## 14. TRANSPORT INFORMATION

**UN/Id No:** 2811

**DOT:**

**Proper shipping name:** Toxic solid, organic, n.o.s.  
**IATA Hazard Label(s):** Toxic  
**Hazard Class:** 6.1 - Toxic substances - dermal  
**Packing group:** III

**Emergency Response Guide Number (ERG):** 154

**Components**  
 INDOLE

**U.S. DOT - Appendix A Table 1 - Reportable Quantities**  
 Not Listed

**TDG (Canada):**

**WHMIS hazard class:**

D2b toxic materials



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**IMDG/IMO**

**Proper shipping name:**

Toxic solid, organic, n.o.s.

**IMDG - Hazard Classifications**

Not Applicable

**Components**

**U.S. DOT - Appendix B - Marine Pollutan U.S. DOT - Appendix B - Severe Marine Pollutants**

INDOLE

Not Listed

Not Listed

**IMO-labels:**

**15. REGULATORY INFORMATION**

**International Inventories**

**Components**

INDOLE

**Inventory - United States TSCA - Sect. 8(b)**

Present

**Canada DSL Inventory List -**

Present

**Australia (AICS):**

Present

**Inventory - China:**

Present

**EU EINECS List -**

204-420-7; C8H7N

**Inventory - Japan:**

5-130

**Korean KECL:**

KE-21007

**Philippines PICCS:**

Present

**U.S. regulations:**

**Components**

INDOLE

<b>California Proposition 65 -</b>	<b>Massachusetts Right to Know List:</b>	<b>New Jersey Right to Know List:</b>	<b>Pennsylvania Right to Know List:</b>
Not Listed	Not Listed	Not Listed	Not Listed

**Components**

INDOLE

<b>Florida substance List:</b>	<b>Rhode Island Right to Know List:</b>	<b>Illinois - Toxic Air Contaminants</b>	<b>Connecticut - Hazardous Air Pollutants</b>
Not Listed	Not Listed	Not Listed	Not Listed

**Components**

INDOLE

<b>SARA 313 Emission reporting/Toxic Release of Chemicals</b>	<b>CERCLA/SARA - Section 302 Extremely Haz</b>	<b>NTP:</b>	<b>IARC:</b>
Not Listed	Not Listed	None	None

**SARA 313 Notification:**

The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).

**State Notification:**

The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.

<b>16. OTHER INFORMATION</b>
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**Prepared by:** Health & Safety

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**End of Safety Data Sheet**