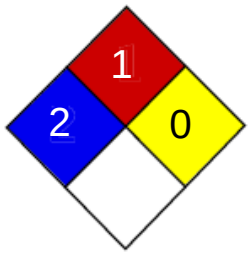
"Chemicals, Reagents & BioAffinity Matrix"



Health	2
Fire	1
Reactivity	0
Personal Protection	E

Material Safety Data Sheet

Indole-3-acetic acid

1: Chemical Product and Company Identification

Product Name: Indole-3-acetic acid

Catalog Code: 30631010-1, 30631010-2, 30631010-3

CAS#: 87-51-4

RTECS: NL3150000

TSCA: TSCA 8(b) inventory : Indole-3-acetic acid

CI#: Not available.

Synonym: 3-Indoleacetic Acid; Heteroauxin; Acetic acid, indolyl

Chemical Name: Indole-3-acetic acid

Chemical Formula: $C_{10}H_9NO_2$

Contact information:

bioWORLD
4150 Tuller Rd
Suite 228, Dublin, OH 43017, USA

For information, call: 614-792-8680
Fax Number: 614-792-8685
Order Online:**www.bio-world.com**

E-mail : save@bio-world.com

In case of a chemical emergency, contact local hospital.

For non-emergency assistance,call: 1-800-860-9729

2: Composition and Information on Ingredients

Composition:

Name	CAS#	% by Weight
Indole-3-acetic acid	87-51-4	-

Toxicological Data on Ingredients:

LD_{50} (Oral, Rat): >500 mg/kg.

3: Hazards Identification

Potential Acute Health Effects: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

4: First Aid Measures

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Product of Combustion: These products are carbon oxides (CO, CO_2), nitrogen oxides (NO, NO_2...).

Fire Hazards in Presence of Various Substances: Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:
Not available

Fire Fighting Media and Instructions:

SMALL FIRE: Use dry chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

6: Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by

spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7: Handling and Storage

Precautions: Keep locked up.. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.
Storage: Light sensitive. Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25°C (77°F).

8: Exposure Controls/Personal Protection

Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.

Personal Protection: Respiratory : Government approved respirator.
Hand: Chemical resistant gloves.
Eye: Safety glasses.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

9: Physical and Chemical Properties

Physical State and Appearance: Solid. (Crystals solid.)

Odor: Not available.

Taste: Not available.

Molecular Weight: 175.18 g/mole

Color: White.

pH(1% soln/water): Not available.

Boiling Point: Not available.

Melting Point: 168°C (334.4°F) - 170 ºC (338 ºF)

Critical Temperature: Not available.

Specific Gravity: Not available.

Vapour Pressure: Not available.

Vapor Density: 5 (Air = 1)

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Soluble in diethyl ether, acetone.
Very slightly soluble in cold water, hot water. Freely soluble in alcohol

10: Stability and Reactivity Data

Stability: Stable.

Instability Temperature: Not available.

Conditions of Instability: Excess heat, incompatible materials, light

Incompatibility with various substances: Reactive with oxidizing agents.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Light sensitive.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

11:Toxicological Information

Routes of Entry: Skin Contact, Eye Contact, Inhalation, Ingestion.

Toxicity to Animals:

LD_{50} (Oral, Rat): >500 mg/kg.

Chronic Effects on Humans: Mutagenic for mammalian somatic cells.

Other Toxic Effects on Humans: Skin Contact: May cause skin irritation.
Skin Absorption: May be harmful if absorbed through the skin.
Eye Contact: May cause eye irritation.
Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
Ingestion: May be harmful if swallowed.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: May affect genetic material. May cause cancer based on animal data. No human data found at this time. May cause adverse reproductive effects (fetotoxicity) and birth defects based on animal data. No human data found at this time.

Special Remarks on other Toxic Effects on Humans: Not available.

12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Product of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

13: Disposal Considerations

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14: Transport Information

DOT Classification: Not a DOT controlled material.

Identification: Not available.

Special Provisions for Transport: Not available.

15: Other Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Indole-3-acetic acid

Other Regulations: R22- Harmful if swallowed.
R36/38- Irritating to eyes and skin.
R40- Possible risks of irreversible effects.
S2- Keep out of the reach of children.
S24/25- Avoid contact with skin and eyes.
S36/37- Wear suitable protective clothing and gloves.
S46- If swallowed, seek medical advice immediately and show this container or label.

Other Classifications:

WHMIS(Canada): Not controlled under WHMIS (Canada).

DSCL(EEC): Not available.

HMIS(U.S.A):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A):

Health: 2

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment: Gloves. Lab coat. Dust respirator. Splash goggles.

16: Other Information

References: Not available.

Other Special Considerations: Not available.

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Last Updated: 11/12/2008 9:54:11 AM

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