

SAFETY DATA SHEET

Creation Date 21-Sep-2010

Revision Date 24-Dec-2021

Revision Number 5

1. Identification

Product Name	Indole	
Cat No. :	O6104-25; O6104-100; O6104-500	
CAS No	120-72-9	
Synonyms	2,3-Benzopyrrole	
Recommended Use	Laboratory chemicals.	
Uses advised against	Food, drug, pesticide or biocidal product use.	

Details of the supplier of the safety data sheet

Company Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

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

Acute oral toxicity Acute dermal toxicity Serious Eye Damage/Eye Irritation Skin Sensitization	Category 4 Category 3 Category 1 Category 1
Skin Sensilization	Calegory

Label Elements

Signal Word Danger

Hazard Statements

Harmful if swallowed Toxic in contact with skin May cause an allergic skin reaction Causes serious eye damage



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace Skin

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

Remove/Take off immediately all contaminated clothing

Wash contaminated clothing before reuse

If skin irritation or rash occurs: Get medical advice/attention

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Storage

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC)

Hazards not otherwise classified (HN

None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Indole	120-72-9	>95

4. First-aid measures		
General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.	
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.	
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.	

Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.
Most important symptoms and effects	Causes severe eye damage. May cause allergic skin reaction. RAPIDLY ABSORBED THROUGH SKIN: May be harmful if absorbed through skin: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

 Suitable Extinguishing Media
 Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

 Unsuitable Extinguishing Media
 No information available

 Eleab Paint
 126 °C (276 8 °E

Flash Point	136 °C / 276.8 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

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. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA Health 3	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental re	ease measures	
Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.		
Environmental Precautions	Should not be released into	o the environment.	

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Protect from direct sunlight. Incompatible Materials. Strong oxidizing agents.

8. Exposure controls / personal protection

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

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7. FIIYSICA	rand chemical properties
Physical State	Solid
Appearance	Off-white
Odor	Characteristic
Odor Threshold	No information available
рН	5.9 1000g/L (20°C)
Melting Point/Range	51 - 53 °C / 123.8 - 127.4 °F
Boiling Point/Range	253 - 254 °C / 487.4 - 489.2 °F @ 760 mmHg
Flash Point	136 °C / 276.8 °F
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	0.012 mmHg @ 25 °C
Vapor Density	Not applicable
Specific Gravity	1.220
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	> 253°C
Viscosity	Not applicable
Molecular Formula	C8 H7 N
Molecular Weight	117.15

10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Sensitivity to light.	
Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation. Exposure to lig		
Incompatible Materials Strong oxidizing agents		
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)		

Hazardous Polymerization

Hazardous polymerization does not occur.

Hazardous Reactions

None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Information

Component Indole		LD50 Oral		LD50 Dermal	LC50	Inhalation		
		LD50 = 1 g/kg (Rat)	LD50 = 1 g/kg (Rat) LD50 = 790 mg/kg (Rabbit)) No	Not listed		
Toxicologically Synergistic Products			No information available					
Delayed and immed	liate effects a	as well as chronic effec	ts from short an	d long-term expo	osure			
Irritation		CAUSES (SEVERE	E) EYE BURNS In	ritating to respirato	ory system			
Sensitization		May cause sensitiz	ation by skin cont	act				
Carcinogenicity		The table below inc	licates whether ea	ach agency has lis	ted any ingredient	as a carcinoger		
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
Indole	120-72-9	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information avail	ilable					
Reproductive Effects		No information avail	No information available.					
Developmental Effe	ects	No information avail	No information available.					
Teratogenicity		No information avail	No information available.					
STOT - single exposure STOT - repeated exposure		None known None known						
Aspiration hazard		No information avail	No information available					
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Symptoms / effects, both acute and	RAPIDLY ABSORBED THROUGH SKIN: May be harmful if absorbed through skin:
delayed	Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling
-	of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Indole	Not listed	Onchorhynchus mykiss:	Not listed	1 mg/L 48h
		LC50=10 mg/L 24h		

Persistence and Degradability Persistence is unlikely

Bioaccumulation/ Accumulation No in

No information available.

Mobility

Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Indole	2.14

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT	
UN-No	UN2811
Proper Shipping Name	Toxic solid, organic, n.o.s.
Technical Name	(INDOLE)
Hazard Class	6.1
Packing Group	III
TDG	
UN-No	UN2811
Proper Shipping Name	Toxic solid, organic, n.o.s.
Hazard Class	6.1
Packing Group	III
IATA	
UN-No	UN2811
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.*
Hazard Class	6.1
Packing Group	III
IMDG/IMO	
UN-No	UN2811
Proper Shipping Name	Toxic solid, organic, n.o.s.
Hazard Class	6.1
Packing Group	III
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Indole	120-72-9	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

[Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
	Indole	120-72-9	Х	-	204-420-7	Х	Х	Х	Х	Х	KE-21007

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

Safety, health and environmental regulations/legislation specific for the substance or mixture

Authorisation/Restrictions according to EU REACH

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Indole	120-72-9	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Indole	120-72-9	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	21-Sep-2010 24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of SDS