

SAFETY DATA SHEET

Creation Date 15-Dec-2011

Revision Date 29-Mar-2024

Revision Number 3

1. Identification

Product Name

Indole-3-acetic acid

87-51-4

Cat No. : A10556

CAS No Synonyms

Recommended UseLaboUses advised againstFood

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Heteroauxin; 2-(1H-indol-3-yl)acetic acid

Details of the supplier of the safety data sheet

<u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**: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)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

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

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

Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

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

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Storage

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

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %			
1H-Indole-3-acetic ac	id	87-51-4	>95			
	4.	First-aid measures				
General Advice If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.						
Eye ContactRinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. symptoms persist, call a physician.						
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician.					
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.					
Ingestion Do NOT induce vomiting. Get medical attention.						
Most important symptoms and effects	rtant symptoms and No information available.					

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

 Flash Point
 171 °C / 339.8 °F

Method - No information available

Autoignition Temperature 560 °C / 1040 °F

Explosion Limits	
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

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Nitrogen oxides (NOx). 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.

Health 2	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions	•	n. Use personal protective equinnel to safe areas. Keep peopl	uipment as required. Avoid dust le away from and upwind of
Environmental Precautions	sewer system. Prevent furt		h into surface water or sanitary to do so. Prevent product from Information.

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. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Protect from direct sunlight. To maintain product quality: Keep refrigerated. 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	neering 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	Tight sealing safety goggles.			
Skin and body protection	Impervious gloves.			
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.			
Recommended Filter type:	Particulates filter conforming to EN 143.			
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.			

9. Physical and chemical properties

Physical State	
Appearance	
Odor	
Odor Threshold	
рН	
Melting Point/Range	
Boiling Point/Range	
Flash Point	
Evaporation Rate	
Flammability (solid,gas)	
Flammability or explosive limits	
Upper	
Lower	
Vapor Pressure	
Vapor Density	
Specific Gravity	
Solubility	
Partition coefficient; n-octanol/wat	ter
Autoignition Temperature	
Decomposition Temperature	
Viscosity	
Molecular Formula	
Molecular Weight	
=	

Powder Solid Beige no data available No information available 4 5 g/l aq.sol 167 °C / 332.6 °F No information available 171 °C / 339.8 °F Not applicable No information available

No data available No data available No information available No information available Soluble in water No data available 560 °C / 1040 °F No information available Not applicable C10 H9 N O2 175.19

10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Light sensitive.	
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to light.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Product	s Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO ₂)	
Hazardous Polymerization	Hazardous polymerization does not occur.	

Hazardous Reaction	IS	None under normal processing.							
		11. Toxico	11. Toxicological information						
Acute Toxicity	cute Toxicity								
Product Information Component Informa		No acute toxicity in	nformation is availa	ble for this produc	t				
Toxicologically Syne Products		No information ava	ailable						
Delayed and immed	iate effects as w	ell as chronic effe	cts from short an	d long-term expo	<u>sure</u>				
Irritation		Irritating to eyes, re	espiratory system	and skin					
Sensitization		No information ava	ailable						
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinog									
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico			
1H-Indole-3-acetic acid	87-51-4	Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects		No information ava	ailable						
Reproductive Effect	S	No information ava	ailable.						
Developmental Effect	cts	No information ava	ailable.						
Teratogenicity		No information ava	ailable.						
STOT - single expos STOT - repeated exp		Respiratory system None known							
Aspiration hazard		No information available							
Symptoms / effects,both acute and No information available delayed									
Endocrine Disruptor Information No information available									
Other Adverse Effec	Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTEC complete information.								
12. Ecological information									
Ecotoxicity Do not empty into dra	ins.								
Persistence and Dec	gradability	Soluble in water P	ersistence is unlike	ely based on inform	nation available.				
Bioaccumulation/ A	ccumulation	No information ava	ormation available.						
Mobility		Will likely be mobil	e in the environme	ent due to its water	solubility.				
		13. Dispo	sal conside	erations					
Waste Disposal Met	hods	Chemical waste ge hazardous waste. national hazardous	enerators must det Chemical waste g	ermine whether a o enerators must als	o consult local, re	gional, and			
		14. Tran	sport inforr	mation					
DOT		Not regulated							

_ <u>TDG_</u> IATA_	Not regulated Not regulated	
IMDG/IMO	Not regulated	
	15. Regulatory information	

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
1H-Indole-3-acetic acid	87-51-4	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

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
1H-Indole-3-acetic acid	87-51-4	-	Х	201-748-2	Х	Х		Х	Х	KE-21008

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

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

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

Slight risk, Grade 1

Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
1H-Indole-3-acetic acid	87-51-4	-	-	-

Not applicable

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
1H-Indole-3-acetic acid	87-51-4	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

	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	Convention (PIC)	Basel Convention (Hazardous Waste)
Ľ	1H-Indole-3-acetic acid	87-51-4	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information		
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com		
Creation Date Revision Date Print Date	15-Dec-2011 29-Mar-2024 29-Mar-2024		
Revision Summary	New emergency telephone response service provider.		

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