

SAFETY DATA SHEET

Creation Date 15-December-2011

Revision Date 21-February-2018

Revision Number 1

1. Identification Product Name Indole-3-acetic acid Cat No. : A10556 CAS-No 87-51-4 Synonyms Heteroauxin; 2-(1H-indol-3-yl)acetic acid Recommended Use Laboratory chemicals. Uses advised against Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

<u>Company</u>

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (800) 579-7421.

2. Hazard(s) identification

Classification

WHMIS 2015 Classification

Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

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

Label Elements

Signal Word Warning

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



Precautionary Statements Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Use only outdoors or in a well-ventilated area Wear protective gloves/protective clothing/eye protection/face protection **Response** IF ON SKIN: Wash with plenty of soap and water IF INHALED: Remove person to fresh air and keep comfortable for breathing IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Call a POISON CENTER/ doctor if you feel unwell Take off contaminated clothing **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

Other Hazards

Light sensitive

3. Composition/Information on Ingredients

Component CAS-No Weight %							
1H-Indole-3-acetic acid		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 Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If 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	Move to fresl	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.					
Ingestion	Do not induce vomiting. Obtain medical attention.						
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically						
	5. Fi	re-fighting measures					

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

NFPA Health	Flammability	Instability	Physical hazards				
2	1	1	N/A				
	6. Accidental re	elease measures					
Personal Precautions	•	on. Use personal protective equ	•				
Environmental Precautions	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Should not be released into the environment. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.						
Methods for Containment and Cl Up	ean Sweep up or vacuum up formation.	spillage and collect in suitable c	ontainer for disposal. Avoid dust				
	7. Handling	and storage					
Handling		equipment. Ensure adequate v I ingestion and inhalation. Avoid	entilation. Do not get in eyes, on I dust formation.				
Storage		osed in a dry, cool and well-ven away from direct sunlight. To m					
8.	Exposure controls	/ personal protecti	on				
Exposure Guidelines	This product does not cor	ntain any hazardous materials w	vith 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.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection Hand Protection	Goggles Protective gloves		
Glove material Natural rubber Butyl rubber Nitrile rubber Neoprene	Breakthrough time See manufacturers recommendations	Glove thickness -	Glove comments Splash protection only
PVC			

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly **Recommended Filter type:** Particulates filter conforming to EN 143

When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls

No information available.

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.

Physical StatePowder SolidAppearanceBeigeOdorno data availableOdor ThresholdNo information availablepH4 5 g/l aq.solMelting Point/Range167 °C / 332.6 °FBoiling Point/RangeNo information availableFlash Point171 °C / 339.8 °FEvaporation RateNot applicable	
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Flammability (solid,gas) No information available	
Flammability or explosive limits	
Upper No data available	
Lower No data available	
Vapor Pressure No information available	
Vapor Density Not applicable	
Specific Gravity No information available	
Solubility Soluble in water	
Partition coefficient; n-octanol/water No data available	
Autoignition Temperature 560 °C / 1040 °F	
Decomposition Temperature No information available	
Viscosity Not applicable	
Molecular Formula C10 H9 N O2	
Molecular Weight 175.19	

10. Stability and reactivity

Reactive Hazard

None known, based on information available

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico				
Carcinogenicity		The table below in	dicates whether ea	ach agency has lis	ted any ingredient a	as a carcinogen.				
Sensitization		No information available								
Irritation		Irritating to eyes, respiratory system and skin								
Delayed and immediate effects as well as chronic effects from short and long-term exposure										
Toxicologically Syr Products	ergistic	No information available								
Product Information Component Information	formation									
Acute Toxicity		N I <i>I I I I I I I I I I</i>	, , , , ,							
11. Toxicological information										
Hazardous Reactio	ns	None under norma	None under normal processing.							
Hazardous Polyme			Hazardous polymerization does not occur.							
Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO ₂)										
Hazardous Decomr	osition Products	ts Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO ₂)								
Incompatible Mater	ials	Strong oxidizing agents								
Conditions to Avoid	b	ncompatible products. Excess heat. Avoid dust formation. Exposure to light.								
Stability		Light sensitive.								

	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico					
1H-Indole-3-acetic acid	87-51-4	Not listed Not listed Not listed Not listed									
Mutagenic Effects		No information ava	No information available								
Reproductive Effects No information available.											
Developmental Effe	cts	No information available.									
Feratogenicity		No information ava	lo information available.								
STOT - single expo STOT - repeated ex		Respiratory system None known									
Aspiration hazard		No information available									
Symptoms / effects delayed	s,both acute and	and No information available									
Endocrine Disrupto	r Information	No information available									
ther Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS complete information.											

	12. Ecological information
<u>Ecotoxicity</u> Do not empty into drains.	
Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation	No information available.

Mobility	lity Will likely be mobile in the environment due to its water solubility.						
	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	Not regulated						
TDG IATA	Not regulated						
IATA_	Not regulated						
IMDG/IMO	Not regulated						
	15. Regulatory information						

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	DSL	NDSL	TSCA	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
1H-Indole-3-acetic acid	-	Х	Х	201-748-2	-		Х	Х	Х	Х	Х

Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

16. Other information	
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Prepared By	Product Safety Department Email: tech@alfa.com www.alfa.com
Creation Date	15-December-2011
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Revision Summary	Mise à jour des systèmes de création SDS, remplace ChemGes SDS No. 87-51-4/3.

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