

Safety Data Sheet per OSHA HazCom 2012

Reviewed on	10/15/2012
1 Identification	
Product identifier	
Product name: Indole-4-carboxylic acid	
Stock number: H55092 CAS Number: 2124-55-2	
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 20 Band Streat	
30 Bond Street Ward Hill, MA 01835-8099	
Tel: 800-343-0660 Fax: 800-322-4757	
Email: tech@alfa.com www.alfa.com	
Information Department: Health, Safety and Environmental Department Emergency telephone number:	
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.	
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07	
Skin Irrit. 2 H315 Causes skin irritation.	
Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation.	
Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS07	
Signal word Warning	
Hazard statements H315 Çauses skin irritation.	
H319 Causes serious eye irritation. H335 May cause respiratory irritation.	
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	
P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P405 Store locked up.	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	
D2B - Toxic material causing other toxic effects	
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Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
<b>HEALTH</b> I Health (acute effects) = 1 <b>FRE</b> I Flammability = 1	
FIRE     I       Flammability = 1       REACTIVITY 1       Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment	
PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients Chemical characterization: Substances	
CAS# Description: 2124-55-2 Indole-4-carboxylic acid	
4 First-aid measures Description of first aid measures	
After inhalation	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.	
After eve contact Rinse opened eve for several minutes under running water. Then consult a doctor.	
After śwallowing Seek medical tréatment. (Cont	td. on page 2)
	USA

	Review	ved on 10/15/2012
Product name: Indole-4-carboxylic a	acid	
Information for doctor Most important symptoms and effects Indication of any immediate medical a	ts, both acute and delayed No further relevant information available. attention and special treatment needed No further relevant information available.	(Contd. of page 1)
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon Special hazards arising from the subs If this product is involved in a fire, the for Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. I <b>stance or mixture</b> Illowing can be released:	
6 Accidental release measures Personal precautions, protective equi Wear protective equipment. Keep unpro Ensure adequate ventilation Environmental precautions: Do not all Methods and material for containmen Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha See Section 8 for information on person See Section 13 for disposal information.	otected persons away. Ilow material to be released to the environment without proper governmental permits. <b>nt and cleaning up:</b> Ensure adequate ventilation. o special measures required. andling nal protection equipment.	
Conditions for safe storage, including Storage Requirements to be met by storeroon	e. explosions and fires: No information known. g any incompatibilities ms and receptacles: No special requirements. nmon storage facility: Store away from oxidizing agents. onditions: led containers.	
Control parameters Components with limit values that rec	of technical systems: I designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Exposure controls Personal protective equipment General protective and hygienic meas The usual precautionary measures for h Keep away from foodstuffs, beverages a Remove all soiled and contaminated clo Wash hands before breaks and at the er Avoid contact with the eyes and skin. Maintain an ergonomically appropriate w Breathing equipment: Use suitable res Protection of hands:	handling chemicals should be followed. and feed. othing immediately. and of work.	
Impervious gloves Check protective gloves prior to each us	g depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. <b>n minutes)</b> Not determined	
9 Physical and chemical properties	5	
Information on basic physical and cho General Information	emical properties	
Appearance: Form: Color:	Solid Brown	
Odor: Odor threshold:	Not determined Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	213-214 °C (415-417 °F) Not determined Not determined Not determined Not determined Not determined Not determined Not determined	
		(Contd. on page 3

## Product name: Indole-4-carboxvlic acid

Page 3/4 Printing date 11/23/2015 Reviewed on 10/15/2012

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Product name: Indole-4-carboxylic a	acid	
Danger of explosion:	Not determined.	(Contd. of page 2)
Explosion limits:		
Lower: Upper:	Not determined Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density Vapor density	Not determined. Not applicable.	
Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with Water:	Not determined	
Partition coefficient (n-octanol/water) Viscosity:		
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	Not applicable. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recom Thermal decomposition / conditions re Possibility of hazardous reactions Re Conditions to avoid No further relevan Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides	nt information available.	
Reproductive foxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effec	skin irritation. erious eye irritation. nown. aown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. <b>/ - repeated exposure:</b> No effects known. <b>/ - single exposure:</b> May cause respiratory irritation.	
12 Ecological information Toxicity		
Aquatic toxicity: No further relevant int Persistence and degradability No further Bioaccumulative potential No further I Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow material to be released to t Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevation	ther relevant information available. relevant information available. ormation available. the environment without proper governmental permits. quantities to reach ground water, water course or sewage system. <b>nt</b>	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be m	or national regulations to ensure proper disposal. made according to official regulations.	
14 Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, IMDG, IATA		
DOT, IMDG, IATA Environmental hazards:	Not applicable Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	x II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
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Page 4/4 Printing date 11/23/2015 Reviewed on 10/15/2012

Product name: Indole-4-carboxylic acid (Contd. of page 3) UN "Model Regulation": 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms GHS07 Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P405 P405 Store locked up. 

 Proof
 Dispose of contents/container in accordance with local/regional/national/international regulations.

 National regulations
 This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes.

 This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).

 SARA Section 313 (specific toxic chemical listings) Substance is not listed.

 California Proposition 65

 Prop 65 - Chemicals known to cause cancer Substance is not listed.

 Prop 65 - Developmental toxicity, female Substance is not listed.

 Prop 65 - Developmental toxicity, male Substance is not listed.

 Prop 65 - Developmental toxicity, male Substance is not listed.

 Information abut limitation of use: For use only by technically qualified individuals.

 Other regulations, limitations and prohibitive regulations

 Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.

 The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

 Substance is not listed.

 P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / -Date of preparation / last revision 11/23/2015 / -Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal cose, 50 percent VPWE very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) LR7C: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA