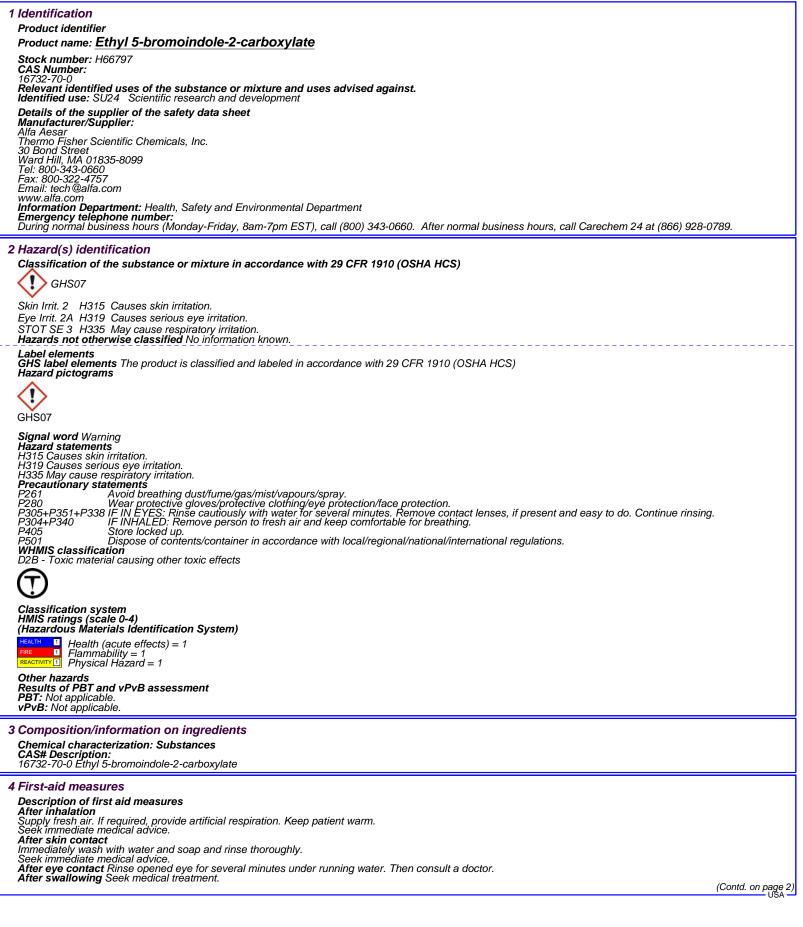


Safety Data Sheet per OSHA HazCom 2012



Product name: Ethyl 5-bromoindole-2-carboxylate

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Information for doctor

Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen bromide (HBr) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. 6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. 7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: Refrigerate Information about storage in one common storage facility: Protect from heat. Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Refrigerate Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measures General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. **Eye protection:** Safety glasses **Body protection:** Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Solid Odor: Not determined Odor threshold: Not determined pH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 163-167 °C (325-333 °F) Not determined Not determined Flammability (solid, gaseous) Ignition temperature: Not determined Not determined

Product name: Ethvl 5-bromoindole-2-carboxvlate

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		newed on 02/05/2013
roduct name: Ethyl 5-bromoindole	e-2-carboxylate	
		(Contd. of page 2
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion:	Not determined.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density	Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with		
Water: Partition coefficient (n-octanol/water)	Not determined r): Not determined.	
Viscosity: dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
) Stability and reactivity		
Reactivity No information known.	and the second	
Chemical stability Stable under recom Thermal decomposition / conditions	to be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions Re	Reacts with strong oxidizing agents	
Conditions to avoid No further relevan Incompatible materials:	nt information available.	
Oxidizing agents Heat		
Hazardous decomposition products:	:	
Carbon monoxide and carbon dioxide Nitrogen oxides		
Hydrogen bromide		
1 Toxicological information		
Information on toxicological effects		
Acute toxicity: No effects known. LD/LC50 values that are relevant for o	classification. No data	
Skin irritation or corrosion: Causes sl	skin irritation.	
Eye irritation or corrosion: Causes se Sensitization: No sensitizing effects kn	erious eye irritation.	
Sensitization: No sensitizing effects kn Germ cell mutagenicity: No effects kn Carcinegonicity: No effects kn	IOWIN IOWIN.	
Carcinogenicity: No classification data Reproductive toxicity: No effects know	a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Specific target organ system toxicity	y - single exposure: No effects known. y - single exposure: May cause respiratory irritation.	
Aspiration hazard: No effects known.		
Subacute to chronic toxicity: No effect	ects known. : To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
2 Ecological information Toxicity		
Aquatic toxicity: No further relevant ini	nformation available.	
Persistence and degradability No furth Bioaccumulative potential No further i	ther relevant information available.	
Mobility in soil No further relevant infor	prmation available.	
Additional ecological information: General notes:		
Do not allow undiluted product or large	quantities to reach ground water, water course or sewage system.	
Avoid transfer into the environment. Results of PBT and vPvB assessmen	nt	
PBT: Not applicable. vPvB: Not applicable.		
Other adverse effects No further releva	/ant information available.	
3 Disposal considerations		
Waste treatment methods	and the second	
Recommendation Consult state, local of Uncleaned packagings:	or national regulations to ensure proper disposal.	
Recommendation: Disposal must be m	nade according to official regulations.	
4 Transport information		
UN-Number	Not applicable	
DOT, ADN, IMDG, IATA UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable	
	Not applicable	
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA		
Class	Not applicable	
Packing group DOT, IMDG, IATA	Not applicable	
Environmental hazards:	Not applicable Not applicable.	
Special precautions for user	Not applicable.	
	x II of MARPOL73/78 and the IBC Code Not applicable.	
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USA -

Product name: Ethyl 5-bromoindole-2-carboxylate		
	(Contd. of page	
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":	-	
5 Regulatory information		
Safety, health and environmental regulatio	ons/legislation specific for the substance or mixture d and labeled in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07		
P305+P351+P338 IF IN EYES: Rinše cautiou P304+P340 IF INHALED: Remove person P405 Store locked up. P501 Dispose of contents/contain National regulations This product is not listed in the U.S. Environm to research and development only. This produ- product must not be used for commercial purp This product is not listed on the Canadian Doi SARA Section 313 (specific toxic chemical California Proposition 65 Prop 65 - Chemicals known to cause cancer Prop 65 - Developmental toxicity, female S Prop 65 - Developmental toxicity, male Sub Information about limitations and prohibit Substance of Very High Concern (SVHC) a The conditions of restrictions according to market and use must be observed. Substance is not listed.	ofective clothing/eye protection/face protection. usly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. son to fresh air and keep comfortable for breathing. hiner in accordance with local/regional/national/international regulations. nental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted uct must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This poses or in formulations for commercial purposes. mestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). I listings) Substance is not listed. e is not listed. bustance is not listed. e only by technically qualified individuals. ive regulations mecording to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the pose of a databaset on the substance is not listed.	
information to ensure proper use and protect conformance with this Material Safety Data Si	s a supplement to other information gathered by them, and should make independent judgement of suitability of this the health and safety of employees. This information is furnished without warranty, and any use of the product not in heet, or in combination with any other product or process, is the responsibility of the user.	
Department issuing SDS: Global Marketing Date of preparation / last revision 11/24/20 Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises de DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American O HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information Systen LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hy OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) UARC: International Agency for Research on Cancer	langereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) Chemical Society) m (Canada)	

NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)