



		00101/10/2000
1	1 Identification	
	Product identifier	
	Product name: <u>Ethyl 2-amino-5-iodobenzoate</u> Stock number: B25484	
	CAS Number:	
	268568-11-2 <b>Relevant identified uses of the substance or mixture and uses advised against.</b> 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. 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: Call Carechem 24 at +44 (0) 1865 407333	
	During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-07	789.
2	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 Causes skin irritation.	
	H319 Causes serious eye irritation. H335 May cause respiratory irritation.	
	Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/sprav	
	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 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	
	$(\mathbf{T})$	
	Classification system	
	HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
	HEALTH I Health (acute effects) = 1   IRE I Flammability = 1	
	REACTIVITY I Physical Hazard = 1	
	Other hazards Results of PBT and vPvB assessment	
	PBT: Not applicable.	
2	3 Composition/information on ingredients	
3	Chemical characterization: Substances	
	CAS# Description: 268568-11-2 Ethyl 2-amino-5-iodobenzoate	
4	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 eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	(Operated and a second
		(Contd. on page 2) USA

## Product name: Ethyl 2-amino-5-iodobenzoate (Contd. of page 1) 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) Hvdrogen iodide`(HI) 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 material to be released to the environment without proper governmental permits. 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. Store in cool, dry place in tightly closed containers. 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: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. 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: Not required. Additional information: No data Exposure controls Personal protective equipment 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. Protection of hands: Impervious gloves The selection of suitable 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. Penetration time of glove material (in minutes) Not determined 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: Crystalline powder White Color: 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: 69-71 °C (156-160 °F) Not determined Not determined Flash point: Not applicable Flammability (solid, gaseous) Not determined Ignition temperature: Decomposition temperature: Not determined Not determined (Contd. on page 3)

## Product name: Ethyl 2-amino-5-iodobenzoate

Auto gruthing:     Not determined       Denge of registry     Product does not present an explosion hazard.       Denge of registry     Not determined       Upper of registry     Not determined       Denge of registry     Not exploration registry       Not exploration registry     Not exploration registry       Patition conflictent (r-cetanol/vestry)     Not exploration registry       Water     Not exploration registry       Ot stability and reactivity     Not exploration registry       Reactivity in formation known     Not exploration registry       Patition conflictent (r-cetanol/vestry)     Not exploration registry       Product down hording constraints registry     Not exploratint registry <	Product name: Ethyl 2-amino-5-iodo	obenzoate			
Description of esploation:     Product does not present an explosion hazard.       Explosion inflats::     Not determined       Upper:     Not application       Partice:     Not application       Solution:     Not application       Solution:     Not application       Obstability of neactivity     Not application       Reactivity No information reactivity     Not application       Reactivity No information reactivity     Not application       Possibility of hazardous reactivities No application     Not application       Possibility of hazardous reactivities No application     Not application       Possibility of hazardous reactivities No application and its information analytic.     Not application       Possibility of hazardous reactivities No application and the information analytic.     Not application       Header of the information and the information analytic.     Not application       Header of the information and the information analytic.     Not application       Header of the information an outococopplicat effects     Not applicatinformatio			(Contd. of page 2)		
Explosion Initia:     Not determined Upper with the initial initininitial inininitial initial initial initialinininitial initial i	Auto igniting:				
Viscosity: Other and stands We applicable Mol Lithler relevant information available. Mol Lithler relevant information available. To stability and reactivity: Reactivity We information Kommand information recomposition from the molecular if used and stored according to specifications. Thermal decomposition reconstructions hours Possibility of theorem is available. Thermal decomposition reconstructions hours Hours and the model in the available. Hours and the available is available is available in the stored according to specifications. Hours and the available is available is available in the stored according to specifications. Hours and the available is available is available in the stored according to specifications. Hours and the available is available is available in the stored according to specifications. Hours available is that are relevant for classification. No data Evel for that on a viscoological effects Accure covering: the specification is available in material is available from the EPA, IARC, NTP, OSHA or ACGH. Reproductive: No effects known. Specific target or open system toxicity is shift available. Set intration or corrosological information available. Set intration or corrosological information in the substance is not fully known. 2 Ecological information Toxicity is available information available. Persistence and degradubility No further relevant information available. Persistence and degradubility No further re	Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water:	Not determined Not determined Not applicable. Not determined. Not determined. Not applicable. Not applicable. Insoluble			
other information     No dipletable No information     No dipletable No information available       10     Total Nithmation     No dipletable No information available     No dipletable No information available       10     Reactivity No information from the Comparison of comparison of controllings to be available.     No dipletable No information available       Incompatible methods:     No available     No information available.       Incompatible methods:     No available     No information No information available.       Incompatible methods:     No available     No information No information available.       Information in excloopical effects Names on out excloopical effects     No information No information on excloopical effects       Information on excloopical effects information     No information No information on excloopical effects       Setting information     Information information     No information No information information       Setting information     No information     No information       Setting information     No information     No information       Setting information     No information     No information       Setting information     No information available.     No information       Setting information     No information available.	Viscosity:				
Other information     No fulfier relevant information available.       10 Stability and reactivity     Reactivity No information from them.       Reactivity No information from them.     The main accomposition from the available.       Possibility of heardrose reactions ho to available.     Pressibility of heardrose reactions how to available.       Possibility of heardrose reactions how to available.     Pressibility of heardrose reactions how to available.       Intermediation of the intermediation available.     Pressibility of heardrose reactions how to available.       Intermediation of corrosolated effects     Pressibility of the optices in the intermediation available.       Senditional to corrosolate effects     Pressibility of the optices in the intermediation available.       Senditional to corrosolate effects     Pressibility of the optices in the intermediation of the on carcinogenic prependents of this material is available from the EPA, LARC, NTP, OSHA or ACGH.       Reproductive to hearthy of the optices in the intermediation of the on carcinogenic prependents of the intermediation.     Again and the optice in the intermedian available.       Again of the optice in the intermedian of the optice in the intermedian available.     Pressibility of the optice in the optice in the optice in the optice in the intermedian available.       Sentitional control optice in the optice i	kinematic:	Not applicable.			
Rescriving Not information known.     Chemical statistics in readiations to be avoided. Decomposition will not occur if used and stored according to specifications.       The mail decomposition readiations to be avoided. Decomposition will not occur if used and stored according to specifications.       Conditions to avoid to is inframion       11 Toxicological information       11 Toxicological information       12 Toxicological information       13 Toxicological information       14 Toxicological information       15 Toxicological information       15 Toxicological information       16 Toxicological information       17 Toxicological information       18 Toxicological information       19 Toxicological information       19 Toxicological information       20 C CU valuation of according to passion of the anit according to passion of the anitation.       20 C CU valuation       20 C CU valuation of according to passion of the anitation.       20 C CU valuation of the anin conitation.       20 C	Other information	No further relevant information available.			
Information on toxicological effects     Acute toxicity: No effects known.     LDI.C50 values that are relevant for classification: No data     Yee inflation or corrositor: Causes services evolution and the evolution of corrositor. Causes services evolution of causes evolution. Asspiration for corrositor. Receiver and chronic toxicity of this substance is not fully known.     Additional toxicological information available.     Additional toxicological information available.     Provide the cological information available.     Additional toxicological information available.     Mobility in soli No further relevant information available. <t< th=""><th colspan="4">Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide</th></t<>	Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide				
Subacute to chronic toxicity: No effects known.     Additional toxicological information     Toxicity     Aquitable toxicity: No further relevant information available.     Persistence and degradability No further relevant information available.     Bioaccumulative potential No further relevant information available.     Mobility in soil No further relevant information available.     Motion relevance for the environment.     Resource effects No further relevant information available.     13 Disposal considerations     Waste treatment methods     Recommendation Consult state, local or national regulations to ensure proper disposal.     Uncleaned packagings:     14 Transport information     None     OD, IMDG, IATA   None     OD, IMDG, IATA   None     OD, IMDG, IATA   None     DOT, IMDG, IATA   None     DOT, IMDG, IATA </td <td colspan="5">11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known.</td>	11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known.				
vPvB: Not äpplicable. Other adverse effects No further relevant information available.     13 Disposal considerations     Waste treatment methods Recommendation Consuit state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.     14 Transport information Not a hazardous material for transportation.     UN-Number DOT, IMDG, IATA   None     UN proper shipping name DOT, IMDG, IATA   None     UN proper shipping name DOT, IMDG, IATA   None     DOT, ADR, IMDG, IATA   None     Packing group DOT, IMDG, IATA   None     Packing treat for user   Not applicable.     Special precautions for user   Not applicable.     Transport in bulk according to Annex II of MARPOLT3/78 and the IBC Code Not applicable.   Not dangerous according to the above specifications.	12 Ecological information Toxicity Aquatic toxicity: No further relevant info Persistence and degradability No furth Bioaccumulative potential No further re Mobility in soil No further relevant inforn Additional ecological information: General notes: Do not allow material to be released to th Avoid transfer into the environment. Results of PBT and vPvB assessment	formation available. her relevant information available. relevant information available. rmation available. the environment without proper governmental permits.			
13 Disposal considerations     Waste treatment methods     Recommendation Consult state, local or national regulations to ensure proper disposal.     Uncleaned packagings:     Recommendation: Disposal must be made according to official regulations.     14 Transport information     Not a hazardous material for transportation.     UN-Number     DOT, IMDG, IATA     None     UN proper shipping name     DOT, IMDG, IATA     None     Transport hazard class(es)     DOT, ADR, IMTA     None     Packing group     DOT, IMDG, IATA     None     Transport hazard class(es)     DOT, IMDG, IATA     None     Packing group     DOT, IMDG, IATA     None     Packing group     DOT, IMDG, IATA     Class     None     Packing group     DOT, IMDG, IATA     None     Packing group     DOT, IMDG, IATA     None     Packing to user     Environmental hazards:     Special precautions for user	vPvB: Not applicable.	ant information available			
UN-Number DOT, IMDG, IATA   None     UN proper shipping name DOT, IMDG, IATA   None     Transport hazard class(es)   None     DOT, ADR, IMDG, IATA   None     Packing group DOT, IMDG, IATA   None     Packing group DOT, IMDG, IATA   None     Packing group DOT, IMDG, IATA   None     Special precautions for user   Not applicable.     Special precautions for user   Not applicable.     Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.   Not dangerous according to the above specifications.	13 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings:	or national regulations to ensure proper disposal.			
DOT, IMDG, IATA   None     UN proper shipping name DOT, IMDG, IATA   None     Transport hazard class(es)   None     DOT, ADR, IMDG, IATA   None     Packing group DOT, IMDG, IATA   None     Packing group DOT, IMDG, IATA   None     Environmental hazards:   None     Special precautions for user   Not applicable.     Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.   Not dangerous according to the above specifications.		tion.			
Transport hazard class(es)     DOT, ADR, IMDG, IATA     Class   None     Packing group   None     DOT, IMDG, IATA   None     Environmental hazards:   Not applicable.     Special precautions for user   Not applicable.     Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.   Not dangerous according to the above specifications.	DOT, IMDĠ, IATA	None			
DOT, ADR, IMDG, IATA   None     Packing group   None     DOT, IMDG, IATA   None     Environmental hazards:   Not applicable.     Special precautions for user   Not applicable.     Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.   Not dangerous according to the above specifications.		None			
Packing group DOT, IMDG, IATA   None     Environmental hazards:   Not applicable.     Special precautions for user   Not applicable.     Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.   Transport/Additional information:     Transport/Additional information:   Not dangerous according to the above specifications.	DOT, ADR, IMDG, IATA	None			
Special precautions for user     Not applicable.       Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.     Not dangerous according to the above specifications.       Transport/Additional information:     Not dangerous according to the above specifications.					
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.     Transport/Additional information:   Not dangerous according to the above specifications.					
Transport/Additional information: Not dangerous according to the above specifications.					
(Contd. on page	Transport/Additional Information.		(Contd. on page 4)		

(Contd. on page 4) USA

Product name: Ethyl 2-amino-5-iodobenzoat	te
	(Contd. of page 3)
DOT Marine Pollutant (DOT):	No
<b>15 Regulatory information</b> Safety, health and environmental regulations/leg GHS label elements The product is classified and Hazard pictograms GHS07	egislation specific for the substance or mixture labeled in accordance with 29 CFR 1910 (OSHA HCS)
Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/r P280 Wear protective gloves/protectiv P305+P351+P338 IF IN EYES: Rinse cautiously wi P304+P340 IF INHALED: Remove person to P405 Store locked up. P501 Dispose of contents/container in National regulations This product is not listed in the U.S. Environmental to research and development only. This product must product must not be used for commercial purposes SARA Section 313 (specific toxic chemical listin California Proposition 65 Prop 65 - Chemicals known to cause cancer Sub Prop 65 - Developmental toxicity, female Substance Prop 65 - Developmental toxicity, female Substance Information about limitations of use: For use only Other regulations, limitations and prohibitive reg	ngs) Substance is not listed. Ibstance is not listed. Iot listed. ance is not listed. ce is not listed. y by technically qualified individuals. egulations ding to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. icle 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the g Authorisation for use) Substance is not listed.
<b>16 Other information</b> Employers should use this information only as a su information to ensure proper use and protect the he conformance with this Material Safety Data Sheet, o	upplement to other information gathered by them, and should make independent judgement of suitability of this ealth and safety of employees. This information is furnished without warranty, and any use of the product not in or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Depai Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association CAS: Chemical Abstracts Service (division of the American Chemica HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Cana LC50: Lethal concentration, 50 percent DD50: Lethal dose, 50 percent DD50: Lethal dose, 50 percent CAGIH: American Conference of Governmental Industrial Hygienists OSHA: Occupational Safety and Health Administration (USA) NTP: National Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	artment cal Society) ada)