



Neview	/ea on 12/05/2008
1 Identification	
Product identifier Product name: <u>Ethyl 3,6-dichloroimidazo[1,2-a]pyridine-2-carboxylate</u>	
Stock number: H50536	
CAS Number: 478040-91-4	
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.	
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 hours the Health, Safety and Environmental Department at 858-716-2400. After normal hours call Chemtrec at (800) 424-9300. During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0)789.
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. Proceedings of the second s	
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	
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.	<i>].</i>
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)	
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1	
REACTWITY I Physical Házard = 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:	
478040-91-4 Ethyl 3,6-dichloroimidazo[1,2-a]pyridine-2-carboxylate	
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 immédiate medical advice. After eve contact Rinse opened eve for several minutes under running water. Then consult a doctor	
After swallowing Seek medical treatment.	(Contd. on page 2)
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(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 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 Hydrogen chloride (HCI) Nitrogen oxides (NOx) Advice for dirighters 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

s r nysical and chemical properties			
Information on basic physical and cl General Information Appearance:			
Form:	Powder		
Odor: Odor threshold:	Not determined		
Odor threshold:	Not determined.		
pH-value:	Not applicable.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined Not determined		
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not applicable Not determined. Not determined Not determined		
		(Contd. on page	

(Contd. on page 3)

Product name: Ethyl 3,6-dichloroimidazo[1,2-a]pyridine-2-carboxylate

(Contd. of page 2)

		(Contd. of page 2)		
Auto igniting:	Not determined.			
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.			
Lower:	Not determined			
Upper: Vapor pressure:	Not determined Not applicable.			
Density:	Not determined			
Relative density Vapor density	Not determined. Not applicable.			
Evaporation rate Solubility in / Miscibility with	Not applicable.			
Water:	Not determined			
Partition coefficient (n-octanol/water): Viscosity:	Not determined.			
dynamic:	Not applicable.			
kinematic: Other information	Not applicable. No further relevant information available.			
10 Stability and reactivity				
Reactivity No information known. Chemical stability Stable under recomm	nended storage conditions.			
Possibility of hazardous reactions No Conditions to avoid No further relevant	be avoided: Decomposition will not occur if used and stored according to specifications. dangerous reactions known information available			
Incompatible materials: Oxidizing agen				
Hazardous decomposition products: Carbon monoxide and carbon dioxide				
Hydrogen chloride (HCl) Nitrogen oxides				
11 Toxicological information				
Information on toxicological effects Acute toxicity: No effects known.				
LD/LC50 values that are relevant for cl	lassification: No data			
Skin irritation or corrosion: Causes skin Eye irritation or corrosion: Causes served	n irritation. ious eve irritation			
Sensitization: No sensitizing effects kno	wn.			
Carcinogenicity: No effects kno Carcinogenicity: No classification data	wn. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.			
Reproductive toxicity: No effects know	n.			
Specific target organ system toxicity - Specific target organ system toxicity -	single exposure: May cause respiratory irritation.			
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect				
Additional toxicological information: 7	Fo the best of our knowledge the acute and chronic toxicity of this substance is not fully known.			
12 Ecological information				
Toxicity				
Aquatic toxicity: No further relevant info Persistence and degradability No furth	rrmation available. er relevant information available			
Bioaccumulative potential No further re	elevant information available.			
Mobility in soil No further relevant inforr Additional ecological information:	nation available.			
General notes:				
Do not allow material to be released to the Do not allow undiluted product or large a	ne environment without proper governmental permits. uantities to reach ground water, water course or sewage system.			
Avoid transfer into the environment.				
Results of PBT and vPvB assessment PBT: Not applicable.				
vPvB: Not applicable. Other adverse effects No further releva	nt information available			
13 Disposal considerations				
Waste treatment methods				
Recommendation Consult state, local o. Uncleaned packagings:	r national regulations to ensure proper disposal.			
Recommendation: Disposal must be ma	ade according to official regulations.			
14 Transport information Not a hazardous material for transportation	on.			
UN-Number DOT, IMDG, IATA	None			
UN proper shipping name DOT, IMDG, IATA				
DOT, IMDG, IATA Transport hazard class(es)	None			
DOT, ADR, IMDG, IATA	Mara			
Class Packing group	None			
DOT, IMDG, IATA	None			
Environmental hazards: Special precautions for user	Not applicable. Not applicable.			
	Il of MARPOL73/78 and the IBC Code Not applicable.			
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Product name: Ethyl 3,6-dichloroimidazo[1,2-a]pyridine-2-carboxylate				
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Transport/Additional information:	Not dangerous according to the above specifications.			
DOT Marine Pollutant (DOT):	No			
5 Regulatory information				
Safety, health and environmental regulations/legislati GHS label elements The product is classified and labele Hazard pictograms	i on specific for the substance or mixture d in accordance with 29 CFR 1910 (OSHA HCS)			
GHS07				
Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation.				
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National regulations	rdance with local/regional/national/international regulations.			
to research and development only. This product must be product must not be used for commercial purposes or in f SARA Section 313 (specific toxic chemical listings) S	ction Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric used by or directly under the supervision of a technically qualified individual as defined by TSCA. This formulations for commercial purposes. ubstance is not listed.			
California Proposition 65 Prop 65 - Chemicals known to cause cancer Substanc	e is not listed.			
Prop 65 - Developmental toxicity Substance is not lister Prop 65 - Developmental toxicity, female Substance is Prop 65 - Developmental toxicity, male Substance is not	d.			
Information about limitation of use. For use only by ter	chnically qualified individuals			
Other regulations, limitations and prohibitive regulati Substance of Very High Concern (SVHC) according to	and Annex Yuanney futured individuals. ons o the REACH Regulations (EC) No. 1907/2006. Substance is not listed. and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on t			
market and use must be observed.	and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on t			
Substance is not listed. Annex XIV of the REACH Regulations (requiring Auth	orisation for use) Substance is not listed.			
Chemical safety assessment: A Chemical Safety Asses	ssment has not been carried out.			
Other information Employers should use this information only as a supplem information to ensure proper use and protect the health a conformance with this Material Safety Data Sheet, or in context	nent to other information gathered by them, and should make independent judgement of suitability of this ind safety of employees. This information is furnished without warranty, and any use of the product not 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 11/24/2015 / - Abbreviations and acronyms:	r.			
ADDIEVIALIONS and aCronyINS. RID: Règlement international concernant le transport des marchandises dan IATA-DGR: Dangerous Goods Regulations by the "International Air Transpo	ngereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) nt Association" (IATA)			
ICAO-II: Technical Instructions by the "International Civil Aviation Organizat	tion" (ICAU)			
INDEX International Maintee Order of Dangelous Orders				
IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Societ, HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada)	<i>y</i> /			
LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent vPvB: very Persistent and very Bioaccumulative				
LCSU: Lethal concentration, 50 percent LDSU: Lethal dose, 50 percent vPvB: 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) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)				
IARC: International Agency for Research on Cancer				