

Safety Data Sheet per OSHA HazCom 2012

	Reviewed on 12/01/2014
1 Identification	
Product identifier	
Product name: Ethyl 4-formylpyrrole-2-carboxylate	
Stock number: H64776 CAS Number: 7126-57-0	
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 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	(000) 020 0700.
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07	
Skin Sens. 1 H317 May cause an allergic skin reaction. 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	
H317 May cause an allergic skin reaction. Precautionary statements	
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection.	
P280 Wear protective gloves/protective clothing/eye protection/face protection. P363 Wash contaminated clothing before reuse. P321 Specific treatment (see on this label).	
P333+P313 If skin irritation or rash occurs: Get medical advice/attention. 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 1 Health (acute effects) = 1 FIRE 1 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: 7126-57-0 Ethyl 4-formylpyrrole-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 immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	
After swallowing Seek medical treatment. 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.	
	USA USA (Contd. on page 2)

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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 foi Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture llowing 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.	tected persons away. The sewage system or any water course. t and cleaning up: Pick up mechanically. special measures required. Indling al protection equipment.	
Conditions for safe storage, including Storage Requirements to be met by storeroon	explosions and fires: No information known. g any incompatibilities ns and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents. nditions: ed containers.	
Control parameters Components with limit values that red The product does not contain any releval Additional information: No data 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 ei Maintain an ergonomically appropriate w Breathing equipment: Use suitable res Recommended filter device for short i Use a respirators are appropriate. Or Protection of hands: Impervious gloves Check protective gloves prior to each us	of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. guire monitoring at the workplace: int quantities of materials with critical values that have to be monitored at the workplace. Sures andling chemicals should be followed. and feed. thing immediately. hd of work. vorking environment. pirator when high concentrations are present. term use: PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to det hly use equipment tested and approved under appropriate government standards. the for their proper condition.	termine if air-
9 Physical and chemical properties Information on basic physical and che General Information Appearance: Form: Odor: Odor: Odor threshold: pH-value:		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	101-105 °C (214-221 °F) Not determined Not determined Not determined Not determined Not determined Not determined Not determined	
Danger of explosion: Explosion limits: Lower: Upper:	Not determined. Not determined Not determined	(Contd. on pa

Ethyl A-formylnyrrolo-2-carboxylate *.* 4 Ρ

Product name: Ethyl 4-formylpyrrole	e-2-carboxylate	
		(Contd. of page 2)
Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Not applicable. Not determined Not determined. Not applicable. Not applicable. Not determined Not determined. Not applicable. Not applicable. Not applicable. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions Re Conditions to avoid No further relevant Incompatible materials: Oxidizing ager Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides	o be avoided: Decomposition will not occur if used and stored according to specifications. acts with strong oxidizing agents information available.	
Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	riritation irritation in reaction. wn. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n. • repeated exposure: No effects known. • single exposure: No effects known.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant information Persistence and degradability No further Bioaccumulative potential No further of Mobility in soil No further relevant inform Additional ecological information: General notes: Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. VPvB: Not applicable. Other adverse effects No further releval	er relevant information available. elevant information available. nation available. uantities to reach ground water, water course or sewage system.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be mu	r national regulations to ensure proper disposal. ade according to official regulations.	
14 Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name		
DOT, ADN, IMDG, ĬATA Transport hazard class(es)	Not applicable	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, IMDG, IATA		
Environmental hazards:	Not applicable Not applicable.	
Special precautions for user	Not applicable.	
	II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information: DOT		
Marine Pollutant (DOT):	No	
UN "Model Regulation":		
15 Regulatory information	lations/lasislation on sitis for the substance or minture	

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)

Product name: Ethyl 4-formylpyrrole-2-carboxylate

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USA

(Contd. of page 3) Hazard pictograms ! GHS07 Signal word Warning Hazard statements H317 May cause an allergic skin reaction. Precautionary statements

 P261
 Avoid breathing dust/fume/gas/mist/vapours/spray.

 P280
 Wear protective gloves/protective clothing/eye protection/face protection.

 P363
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 P321
 Specific treatment (see on this label).

 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

 P501

 Dispense of extent/optionstrip period

 P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National 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 (NDSL). SAPA Section 212 (cneeding of the canadian Domestic Substances is not listed on the Canadian Domestic Substances is not listed on the Canadian Non-Domestic Substances List (NDSL). This product is not listed on the Canadan Domestic Substances List (DSL) of the Cana SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female 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. Prop 65 - Developmental toxicity, male Substance is not listed. Other regulations 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 liste 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 / -Abbreviations and accoryms: 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 concentration, 50 percent CACGHI: American Conterence 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) Department issuing SDS: Global Marketing Department