



Page 1/4 Printing date 04/07/2017 Revision date 04/06/2017 Version 1

1 Identification Product identifier
Product name: Ethyl thiophene-3-carboxylate
Stock number: B22468
CAS Number: 5751-80-4 EC number:
227-275-1 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 Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
The substance is not classified as hazardous according to 29 CFR 1910 (OSHA GHS). Hazards not otherwise classified No information known.
Label elements GHS label elements Not applicable Hazard pictograms Not applicable
Signal word Not applicable Hazard statements Not applicable
WHMIS classification Not applicable Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH I Health (acute effects) = 1
Fire I Flammability = 1 REACTWITY 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
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Chemical characterization: Substances CAS# Description: 5751-80-4 Ethyl thiophene-3-carboxylate Concentration: 5100% Identification number(s): EC number: 227-275-1 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 Immediate medical advice. After exploration and the substance of the substance
Chemical characterization: Substances CAS# Description: 5751-80-4 Ethyl thiophene-3-carboxylate Concentration: S100% Identification number(s): E Consentration: S100% A 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 Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medica Suitable extinguishing media Suitabl
Chemical characterization: Substances CAS# Description: 5751-80-4 Ethyl thiophene-3-carboxylate Concentration: s100% 24 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 eye for several minutes under running water. Then consult a doctor. After eve contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eve contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eve contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eve contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eve contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eve contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After eye contact Rinse opened eye for several model 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 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 an
Chemical characterization: Substances CASE Description: 5751-80-4 Ethyl thiophere-3-carboxylate Concentration: s100% Identification number(s): Ec number: 227-275-1 E First-aid measures Description of first aid measures After skin contact Numpki freesh 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 skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After skin kmedical treatment. Information of 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. Stribution of any immediate medical attention and special treatment needed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available. Stribution of any immediate medical attention and special treatment needed No further relevant information available. S
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Charmical characterization: Substances CASE Description: 5751-80-4 Elhy thiophene-3-carboxylate Concentration: S100% Identification number(9): EC number: 227-275-1 4 First-aid measures Description of first aid measures After inhalation Supply first ail: Inrequired, provide artificial respiration. Keep patient warm. Supply first ail: Inrequired, provide artificial respiration. Keep patient warm. Supply first ail: Inrequired, provide artificial respiration. Keep patient warm. After seice contact Rinse opened eye for several minutes under running water. Then consult a doctor. After sey contact Rinse opened eye for several minutes under running water. Then consult a doctor. After sey contact Rinse opened eye for several minutes under running water. Then consult a doctor. After sey contact Rinse opened eye for several minutes under running water. Then consult a doctor. After sey contact Rinse opened eye for several minutes under running water. Then consult a doctor. After seve contact Rinse opened eye for several minutes under running water. Then consult a doctor. After seve contact Rinse opened eye for several minutes under running water. Then consult a doctor. After seve contact Rinse opened eye for several minutes under running water. Then consult a doctor. After seve contact Rinse opened eye for several minutes under running water. Then consult a doctor. After seve contact Rinse opened eye for several minutes under running water. Then consult a doctor. After several contact Rinse opened eye for several minutes under running water. Then consult a doctor. After severalowing Seek medical treatment. Indication of any immediate medical attention and special treatment needed No further relevant information available. Indication of any timmediate medical attention and special treatment needed No further relevant information available. Subtavious is involved in fire, the following can be released: Carbon monoxide and carbon dioxide Subtavious (Sox) Advice
Chartical characterization: Substances CASE Description: 5751-80-4 Ethyl thiophene-3-carboxylate Concentration: S100% Identification number(s): EC number: 227-275-1 4 First-aid measures Description of first aid measures Supply fresh air. If required, provide artificial respiration. Keep patient warm. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After shin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After sex contact Rinse opened up for several minutes under running water. Then consult a doctor. After seve contact Rinse opened up for several minutes under running water. Then consult a doctor. After seve contact Rinse opened up for several and televed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available. Indication of any immediate medical attention and special treatment. Mitor dide social releases etinguishing agents Carbon

Product name: Ethyl thiophene-3-carboxylate

Provention of secondary based as No	(Contd. of pag				
Prevention of secondary hazards: No special measures required. Reference to other sections					
See Section 8 for information on persona	See Section 7 for information on safe handling See Section 8 for information on personal protection equipment.				
Protective Action Criteria for Chemica	See Section 13 for disposal information. Protective Action Criteria for Chemicals				
PAC-1: Substance is not listed. PAC-2: Substance is not listed.					
PAC-3: Substance is not listed.					
7 Handling and storage Handling					
Precautions for safe handling					
Keep container tightly sealed. Store in cool, dry place in tightly closed containers.					
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 prote					
Additional information about design of Properly operating chemical fume hood	of technical systems: 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:					
	ant quantities of materials with critical values that have to be monitored at the workplace.				
Exposure controls					
Personal protective equipment General protective and hygienic meas	sures				
The usual precautionary measures for h Keep away from foodstuffs, beverages a	randling chemicals should be followed. and feed.				
Remove all soiled and contaminated clo Wash hands before breaks and at the er	thing immediately. nd of work				
Maintain an ergonomically appropriate w Breathing equipment: Use suitable res	vorking environment. spirator when high concentrations are present.				
Recommended filter device for short Use a respirator with multi-purpose com	term use: bination (US) or type ABEK (EN 14387) 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 such as NIOSH (USA) or CEN (EU).					
Protectión of hands: Impervious gloves					
Check protective gloves prior to each us 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 with side Body protection: Protective work clothing and the set of the set	le shields / NIOSH (US) or EN 166(EU)				
9 Physical and chemical properties	3				
Information on basic physical and chemical properties General Information					
Appearance: Form:	Liquid				
Odor: Odor threshold:	Not determined Not determined.				
pH-value:	Not determined.				
Change in condition Melting point/Melting range:	Not determined				
Boiling point/Boiling range: Sublimation temperature / start:	207-208 °C (405-406 °F) Not determined				
Flash point:	Not determined				
Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not determined. Not determined				
Decomposition temperature: Auto igniting:	Not determined Not determined.				
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.				
Lower: Upper:	Not determined Not determined				
Vapor pressure: Density:	Not determined Not determined				
Relative density Vapor density	Not determined. Not determined.				
Evaporation rate Solubility in / Miscibility with	Not determined.				
Water: Partition coefficient (n-octanol/water).	Not determined				
Viscosity:					
dynamic: kinematic: Other information	Not determined. Not determined.				
Other information	No further relevant information available.				
	(Contd. on pac				

Product name: Ethyl thiophene-3-carboxylate

(Contd. of page 2)

		(Contd. of page 2)	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition w Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Sulfur oxides (SOx)	vill not occur if used and stored according to specifications. s		
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: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects Specific target organ system toxicity - single exposure: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the	ts known. known.		
12 Ecological information Toxicity Aquatic 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. Additional ecological information: General notes: Do not allow material to be released to the environment without proper g Do not allow undiluted product or large quantities to reach ground water, Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.	povernmental 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			
UN-Number			
DOT, ADN, IMDG, IATA	Not applicable		
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not applicable		
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class	Not applicable		
Packing group DOT, ADR, IMDG, IATA	Not applicable		
Environmental hazards:	Not applicable.		
Special precautions for user	Not applicable.		
Transport in bulk according to Annex II of MARPOL73/78 and the IB			
Transport/Additional information:			
DOT Marine Bollutent (DOT)	A1-		
Marine Pollutant (DOT): UN "Model Regulation":	No Not applicable		
on moust toganation ?	Not approvable		
15 Regulatory information Safety, health and environmental regulations/legislation specific for GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable National regulations This product is not listed in the U.S. Environmental Protection Agency To to research and development only. This product must be used by or dire product must not be used for commercial purposes or in formulations for This product is not listed on the Canadian Domestic Substances List (DS	oxic Substances Control Act Chemical Substance Inventory. Use of this p ctlv under the supervision of a technically qualified individual as defined b	roduct is restricted y TSCA. This	

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 Substance is not listed.

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Product name: Ethyl thiophene-3-carboxylate

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Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about 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. market and use must be observed. Substance is not listed. 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 Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing SDS: Global Marketing Department

 Department issuing SDS: Global Marketing Department Date of preparation/Revision: Print date, revision date and version number are in the header of each page.

 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EURCS: European Inventory of Existing Commercial Chemical Substances 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 PBT: Persistent, Bioaccumulative ACGIH: American Carrierec of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National ToxicoOsy Program (USA)

 WIP: Network of Versional Safety and Health Administration (USA) MTP: National ToxicoOsy Program (USA)

USA