



1 Identification Product identifier

Product name: Ethyl 2-furoate

Stock number: L05001 CAS Number: 614-99-3 EC number: 210-404-0 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. Inerrito Fisher Scheman C. 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 according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known.

I abel elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)



Health (acute effects) = 1 Flammability = 2 Flammability = 2 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: 614-99-3 Ethyl 2-furoate Identification number(s): EC number: 210-404-0

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.

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 dióxide 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: Pick up mechanically. Prevention of secondary hazards: Keep away from ignition sources.

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r roduct name. Eury z-rui vate		
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Reference to other sections See Section 7 for information on safe handling		
See Section 7 for information on personal protection equipment.		
See Section 13 for disposal information.		
7 Handling and storage		
Handling Precautions for safe handling		
Keen container tightly sealed		
Store in cool, dry place in tightly closed containers.		
information about protection against explosions and fires: Keep ignition sources away.		
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 hydienic measures		
The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.		
neep away irom rooustutts, beverages and teed. Remove all soiled and contaminated clothing immediately.		
Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.		
Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.		
Protection of hands:	spirator when high concentrations are present.	
Impervious aloves		
Check protective gloves prior to each us	se for their proper condition. γ depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
Eve protection: Safety dasses	depends on the material, but also on quality. Quality will vary nom manufacturer to manufacturer.	
Eye protection: Safety glasses Body protection: Protective work cloth	ing.	
9 Physical and chemical properties		
Information on basic physical and chemical properties General Information		
Appearance:		
Form:	Crystalline	
Color: Odor:	Yéllow	
Odor threshold:	Not determined Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	33-36 °C (91-97 °F)	
Boiling point/Boiling range:	33-36 °C (91-97 °F) 195-196 °C (383-385 °F)	
Sublimation temperature / start:	Not determined	
Flash point:	70 °C (158 °F)	
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined	
Decomposition temperature:	Not determined	
Auto igniting:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure:	Not applicable.	
Density at 20 °C (68 °F): Relative density	1.117 g/cm³ (9.321 lbs/gal) Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with	Incolubio	
Water: Insoluble Partition coefficient (n-octanol/water): Not determined.		
Viscosity:		
dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.		

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

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erial is available from the EPA, IARC, NTP, OSHA or ACGIH. vn. e and chronic toxicity of this substance is not fully known.
mental permits.
r disposal.
None
None
None
None
Not applicable.
Not applicable.
le Not applicable.
Not dangerous according to the above specifications.
No
Agency Toxic Substances Control Act Chemical substance Inventory. ss List (DSL). viduals. tions (EC) No. 1907/2006. Substance is not listed. he Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the libstance is not listed. carried out.

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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. conformance with this Material Safety Data Sheet, or in con Department issuing SDS: Global Marketing Department Date of preparation / last revision 1/23/2015 / -Abbreviations and acronyms: IMD6: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association EINECS: 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 LD50: Lethal dose, 60 percent VPWs very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) USA