



1 Identification Product identifier Product name: 2-Ethylfuran Stock number: A15520, L05360 **CAS Number:** 3208-16-0 EC number: 21-714-0 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: 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) * GHS02 Flame Flam. Liq. 2 H225 Highly flammable liquid and vapor. 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 GHS02 Signal word Danger Hazard statements H225 Highly flammable liquid and vapor. Precautionary statements

 P210
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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

 P240
 Ground/bond container and receiving equipment.

 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

 P403+P235
 Store in a well-ventilated place. Keep cool.

 P501
 Dispose of context input in generation on the context input in generation of context input in generation of the context input in generating the context input in generation of the context input in generat Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification B2 - Flammable liquid * Classification system (Hazardous Materials Identification System) 1
Health (acute effects) = 1

RE
Image: Second state Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 3208-16-0 2-Ethylfuran Identification number(s): EC number: 221-714-0 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. (Contd. on page 2)

| Product name: 2-Ethylfuran | | |
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| Information for doctor | | (Contd. of page 1) |
| Most important symptoms and effect | ts, both acute and delayed No further relevant information available. attention and special treatment needed No further relevant information available. | |
| 5 Fire-fighting measures Extinguishing media Suitable extinguishing agents In case For safety reasons unsuitable exting Special hazards arising from the sub If this product is involved in a fire, the fc Carbon monoxide and carbon dioxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. | ostance or mixture | |
| Methods and material for containmer Keep away from ignition sources. Absorb with liquid-binding material (san Ensure adequate ventilation. Do not flush with water or aqueous clea Prevention of secondary hazards: Ke Reference to other sections See Section 7 for information on safe he See Section 7 for information on persor See Section 13 for disposal information | otected persons away. The environment without proper governmental permits. Ilow material to be released to the environment without proper governmental permits. Ind, diatomite, acid binders, universal binders, sawdust). Ansing agents Sep away from ignition sources. Mandling The protection equipment. | |
| 7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed Ensure good ventilation at the workplac Information about protection against Protect against electrostatic charges. Fumes can combine with air to form an Keep ignition sources away. Conditions for safe storage, including Storage Requirements to be met by storeroor Information about storage in one com Further information about storage co Keep container tightly sealed. Store in cool, dry conditions in well seal Specific end use(s) No further relevan | ee. t explosions and fires: explosive mixture. Ig any incompatibilities ms and receptacles: Store in a cool location. mmon storage facility: Store away from oxidizing agents. onditions: | |
| Control parameters | | |
| Addítional information: No data Exposure controls Personal protective equipment General protective and hygienic mea The usual precautionary measures for h Keep away from foodstuffs, beverages Remove all soiled and contaminated clk Wash hands before breaks and at the e Maintain an ergonomically appropriate v Breathing equipment: Use suitable res Protection of hands: Impervious gloves Check protective gloves prior to each use | nsures handling chemicals should be followed. and feed. othing immediately. and of work. working environment. spirator when high concentrations are present. se for their proper condition. y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. | |
| 9 Physical and chemical properties | | |
| Information on basic physical and ch General Information Appearance: Form: Color: Odor: Odor threshold: | hemical properties Liquid Light yellow Not determined Not determined. | |
| pH-value: | Not determined. | |
| Change in condition Melting point/Melting range: Boiling point/Boiling range: | Not determined 91-93 °C (196-199 °F) | |
| | | (Contd. on page 3) USA |

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| Product name: 2-Ethylfuran | | | |
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| | | | (Contd. of page 2) |
| Sublimation temperature / start: | Not determined | | |
| Flash point: Flammability (solid, gaseous) | -2 °C (28 °F) Not determined | | |
| Ignition temperature: Decomposition temperature: | Not determined Not determined | | |
| Auto igniting: | Not determined. | | |
| Danger of explosion: Explosion limits: | Product is not explosive. How | ever, formation of explosive air/vapor mixtures is possible. | |
| Lower: Upper: | Not determined Not determined | | |
| Vapor pressure: Density at 20 °C (68 °F): | Not determined | | |
| Relative density ` | 0.912 g/cm³ (7.611 lbs/gal) Not determined. | | |
| Vapor density Evaporation rate | Not determined. Not determined. | | |
| Solubility in / Miscibility with Water: | Not determined | | |
| Partition coefficient (n-octanol/water Viscosity: | | | |
| dynamic: kinematic: | Not determined. | | |
| Other information | Not determined. No further relevant information | n available. | |
| 10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recom Thermal decomposition / conditions Possibility of hazardous reactions N Conditions to avoid No further releval Incompatible materials: Oxidizing age Hazardous decomposition products: 11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for | to be avoided: Decomposition lo dangerous reactions known nt information available. ents : Carbon monoxide and carbon c | will not occur if used and stored according to specifications. dioxide | |
| Reproductive toxicity: No effects kno Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effe | nown. a on carcinogenic properties of ti wn. / - repeated exposure: No effec / - single exposure: No effects i cts known. | his material is available from the EPA, IARC, NTP, OSHA or ACGIH. ets known. known. he acute and chronic toxicity of this substance is not fully known. | |
| 12 Ecological information | | | |
| Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No fur Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes: Do not allow material to be released to Do not allow undiluted product or large Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant | ther relevant information availab. relevant information available. ormation available. the environment without proper quantities to reach ground wate. nt | governmental permits. | |
| 13 Disposal considerations | | | |
| Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be r | Ũ | | |
| 14 Transport information | | | |
| UN-Number DOT, IMDG, IATA | | UN3271 | |
| UN proper shipping name | | | |
| DOT IMDG, IATA | | Ethers, n.o.s. (2-Ethylfuran) ETHERS, N.O.S. (2-Ethylfuran) | |
| Transport hazard class(es) | | | |
| Δ | | | |
| | | | |
| Class Label | | 3 Flammable liquids. 3 | |
| Class | | 3 (F1) Flammable liquids | |
| | | | (Contd. on page 4) |

| duct name: 2-Ethylfuran | |
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| | (Contd. of pag |
| Label IMDG, IATA | 3 |
| | |
| | |
| Class Label | 3 Flammable liquids. |
| Packing group DOT, IMDG, IATA | |
| DOT, IMDG, IATA Environmental hazards: | II Not applicable. |
| Special precautions for user | Warning: Flammable liquids |
| Transport in bulk according to Annex II of MARPOL73/ | |
| Transport/Additional information: | |
| DOT Marine Pollutant (DOT): | No |
| UN "Model Regulation": | UN3271, Ethers, n.o.s. (2-Ethylfuran), 3, II |
| National regulations All components of this product are listed in the U.S. Enviro. All components of this product are listed on the Canadian I SARA Section 313 (specific toxic chemical listings) Sul California Proposition 65 | ooi. dance with local/regional/national/international regulations. onmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. Domestic Substances List (DSL). ıbstance is not listed. |
| Annex XIV of the REACH Regulations (requiring Autho Chemical safety assessment: A Chemical Safety Assess | prisation for use) Substance is not listed. |
| information to ensure proper use and protect the health and conformance with this Material Safety Data Sheet, or in col | ent to other information gathered by them, and should make independent judgement of suitability of this nd safety of employees. This information is furnished without warranty, and any use of the product not i ombination 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 acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par R IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstractos Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) | Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) r) |
| LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent | |