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1 Identification Product identifier	
Product name: <mark>3-Methyl-2-furoic acid</mark> Stock number: L01763 CAS Number:	
4417-96-8 EC number: 224-571-2	
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) 928-0 During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660.	0789.
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.         H319 Causes serious eye irritation.         H335 May cause respiratory irritation.         Precautionary statements         P261       Avoid breathing dust/fume/gas/mist/vapors/spray         P280       Wear protective gloves / 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.         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	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) HEALTH 1 Health (acute effects) = 1 HEALTH 1 Health (acute effects) = 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: 4412-96-8 3-Methyl-2-furoic acid Concentration: ≤100% Identification number(s): EC number: 224-571-2	
4 First-aid measures Description of first aid measures	
<b>After inhalation</b> 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.	(Contd. on page 2)

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(Contd. of page 1) 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 Information for doctor Most important symptoms and effects, both acute and delayed Causes skin irritation. Causes serious eye irritation. 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 dioxide 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. Reference to other sections on safe handling the clistered. 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. Protective Action Criteria for Chemicals PAC-1: Substance is not listed 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. 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 in one common storage facility 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 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. Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges 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. Protection of hands: Impervious gloves Exposure controls Protection of nanas: Impervious gloves Check protective 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. Material of gloves Nitrile rubber, NBR Penetration time of glove material (in minutes) 480 Glove thickness: 0.11 mm Eye protection: Safety glasses with side shields / NIOSH (US) or EN 166(EU) Body protection: Protective work clothing.

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9 Physical and chemical properties	S
Information on basic physical and ch General Information Appearance:	
Form:	Powder Not determined
Odor: Odor threshold:	Not determined Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	133-137 °C (271-279 °F) Not determined Not determined
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Not determined Not determined Not determined Not determined.
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.
Lower: Upper:	Not determined Not determined
Vapor pressure:	Not applicable.
Density: Relative density	Not determined Not determined
Vapor density	Not applicable.
Evaporation rate Solubility in / Miscibility with	Not applicable.
Water: Partition coefficient (n-octanol/water, Viscosity:	Not determined ): Not determined.
dynamic:	Not applicable.
kinematic: Other information	Not applicable. No further relevant information available.
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for Skin irritation or corrosion: Irritant to Eye irritation or corrosion: Irritating e Sensitization: No sensitizing effects kn Germ cell mutagenicity: No effects kn	skin and mucous membranes. ffect. jown.
Carcinogenicity: No classification data Reproductive toxicity: No effects know	a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
	r - repeated exposure: No effects known.
Specific target organ system toxicity	r - single exposure: May cause respiratory irritation.
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect Additional toxicological information:	cts known. To 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 in Persistence and degradability No furt Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes: Do not allow material to be released to	ther relevant information available. relevant information available. rmation available. the environment without proper governmental permits. quantities to reach ground water, water course or sewage system.
PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relev	
13 Disposal considerations	
Waste treatment methods	
Recommendation Consult state, local	or national regulations to ensure proper disposal.
Uncleaned packagings: Recommendation: Disposal must be n	nade according to official regulations.
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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	Not applicable
Class Packing group	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 Transport/Additional information:	and the IBC Code Not applicable.
DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	Not applicable
P405       Store locked up.         P501       Dispose of contents/container in accordan         National regulations       This product is not listed in the U.S. Environmental Protection         to research and development only. This product must be used for commercial purposes or in form         This product is not listed on the Canadian Domestic Substance         SARA Section 313 (specific toxic chemical listings) Subst         California Proposition 65         Prop 65 - Chemicals known to cause cancer Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed.         Other regulations, limitations and prohibitive regulations         Substance of Very High Concern (SVHC) according to the The conditions of restrictions according to Article 67 and market and use must be observed.	s/spray ace protection. several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. and keep comfortable for breathing. nce with local/regional/national/international regulations. n Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict d by or directly under the supervision of a technically qualified individual as defined by TSCA. This ulations for commercial purposes. ces List (DSL) or the Canadian Non-Domestic Substances List (NDSL). tance is not listed. not listed.
market and use must be observed.	Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on th
Substance is not listed. Annex XIV of the REACH Regulations (requiring Authoris	ation for use) Substance is not listed.
Chemical safety assessment: A Chemical Safety Assessme	ent has not béen carried out.
Other information	
Information to ensure proper use and protect the health and s conformance with this Safety Data Sheet, or in combination w <b>Department issuing SDS:</b> Global Marketing Department <b>Date of preparation/Revision:</b> Print date, revision date and	version number are in the header of each nage
information to ensure proper use and protect the health and s conformance with this Safety Data Sheet, or in combination w Department issuing SDS: Global Marketing Department Date of preparation/Revision: Print date, revision date and	safety of employees. This information is furnished without warranty, and any use of the product not in vith any other product or process, is the responsibility of the user.