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1 Identification

Identification Product identifier Product name: 2-AcetyI-5-methyIthiophene			
Stock number: A11282 CAS Number: 13679-74-8 EC number: 237-181-2			
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development Details of the sumplier of the sefert data short.			
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 Tal: 800-343-060			
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)			
GHS07			
Acute Tox. 4 H302 Harmful if swallowed. 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 H302 Harmful if swallowed. Precautionary statements P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P330 Rinse mouth. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) HEALTM 2 Health (acute effects) = 2			
FIRE IFIAE FIAE Flaemability = 1 REACTIVITY Physical Hazard = 1			
Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.			
Composition/information on ingredients Chemical characterization: Substances CAS# Description: 13679-74-8 2-Acetyl-5-methylthiophene Identification purchar(c)			
Identification number(s): EC number: 237-181-2			
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 Harmful if swallowed. Indication of any immediate medical attention and special treatment needed No further relevant information available.			
Fire-fighting measures			
Extinguishing media Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. (Contd. on page 2)			

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(Contd. of page 1) 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 Sulfur oxides (SOx) 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 Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13. Provide a dequate ventilation. Prevention of secondary hazards: No special measures required. 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. 7 Handling and storage Handling **Frecautions for safe handling** Keep container tightly sealed. 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: Refrigerate Information about storage in one common storage facility: Store away from air. Store in the dark. Protect from heat. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. Keep container tightly sealed. Protect from exposure to light. Refrigerate 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 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 solied and contaminated clothing immediately. Wash hands before breaks and at the end of work. De not include and contaminated contained for the end of work. Wash hands before breaks and at the end of work. Do not inhale dust / smoke / mist. 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 multi-purpose combination (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 (EL) CEN (EU). Protection of hands: Impervious gloves Check protection of values 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. Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: _iquid Odor: Not determined Odor threshold: Not determined pH-value: Not determined. Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: 24-28 °C (75-82 °F) 65-67 °C (149-153 °F) (1mm) Not determined Not determined Not determined

(Contd. on page 3) USA

Product name: 2-Acetyl-5-methylthiophene

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Product name: 2-Acetyl-5-methyltl	noprierie							
Decomposition temperature:	Not determined	(Contd. of page 2)						
Auto igniting:	Not determined.							
Danger of explosion: Explosion limits:	Not determined.							
Lower: Upper:	Not determined Not determined							
Vapor pressure: Density at 20 °C (68 °F):	Not determined 1.119 g/cm³ (9.338 lbs/gal)							
Relative density Vapor density	Not determined.							
Evaporation rate Solubility in / Miscibility with	Not determined.							
Water: Partition coefficient (n-octanol/wate	Not determined							
Viscosity:	Not determined.							
dynamic: kinematic: Other information	Not determined.							
Other information	No further relevant information available.							
10 Stability and reactivity								
Reactivity No information known. Chemical stability Stable under reco	mmended storage conditions							
Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents								
Conditions to avoid No further releva Incompatible materials:								
Air Oxidizing agents								
Heat Light								
Hazardous decomposition products Carbon monoxide and carbon dioxide	S:							
Sulfur oxides (SOx)								
11 Toxicological information								
Information on toxicological effects Acute toxicity:								
Harmful if swallowed. The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. 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 I Germ cell mutagenicity: No effects I				
				Carcinogenicity: No classification da Reproductive toxicity: No effects kny				
Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. Carcinogenic categories								
					SHA-Ca (Occupational Safety & Health Administration) Substance is not listed.			
				12 Ecological information				
Toxicity Aquatic toxicity: No further relevant	information available							
Persistence and degradability No fu	urther relevant information available							
Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available.								
Additional ecological information: General notes:	a supplifies to reach ground water, water course or course protom							
Avoid transfer into the environment.	e quantities to reach ground water, water course or sewage system.							
Results of PBT and vPvB assessme PBT: Not applicable.								
vPvB: Not applicable. Other adverse effects No further rele	evant information available.							
13 Disposal considerations								
Waste treatment methods	a ar national regulations to ensure proper dispacel							
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, ADN, IMDG, IATA	Not applicable							
Transport hazard class(es)								
DOT, ADR, ADN, IMDG, IATA Class	Not applicable							
Chaoc	not approable	(Contd. on page 4						

Product name: 2-Acetyl-5-methylthiophene (Contd. of page 3) Packing group DOT, 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 IBC Code Not applicable. Transport/Additional information: ΠΟΤ Marine Pollutant (DOT): No UN "Model Regulation": _ 15 Regulatory information 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) Hazard pictograms ! GHS07 Signal word Warning Hazard statements H302 Harmful if swallowed. Precautionary statements P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P330 Rinse mouth. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P501 Dispose of contents/container in accordance with local/regional/national/international 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 (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, female Substance is not listed. 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. National regulations market and use must be observed. 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 08/18/2016 / -Date of preparation / last revision 08/18/2016¹/ -Abbreviations and acronyms: 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 EURCES: 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, 50 percent VPW: 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 (USA) Accute Tox. 4: Acute toxicity, Hazard Category 4