

Safety Data Sheet per OSHA HazCom 2012

1 Identification
Product identifier Product name: <b>3-(2-Methyl-3-furylthio)-4-heptanone</b>
Stock number: H27378
CAS Number: 61295-41-8
EC number: 262-690-1
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.
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:
Call Carechem 24 at +44 (0) 1865 407333 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
$\Diamond$
GHS07
Signal word Warning
Hāzard statements H302 Harmful if swallowed.
Precautionary statements P264 Wash thoroughly after handling.
P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/…/if you feel unwell. P300
P330 Rinse mouth. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS classification D1B - Toxic material causing immediate and serious toxic effects
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Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH     2       HEALTH     2       File     1       Flammability = 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:
CAS# Description: 61295-41-8 3-(2-Methyl-3-furylthio)-4-heptanone Identification number(s):
Identification`numbér(s):
4 First-aid measures
Description of first aid measures After inhalation Supply troop and in the new indepartitional respiration. Keep patient warm
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. <b>After skin contact</b>
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) USA

## Product name: 3-(2-Methyl-3-furylthio)-4-heptanone (Contd. of page 1) 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 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 Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. 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. Prevention of secondary hazards: No special measures required. Performent to other sections 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 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 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 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. Maintain an ergonomically appropriate working environment Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: 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. 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: Liquid Color: Yellow 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: Not determined Not determined Not determined Not determined Flash point: Not determined. Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined Not determined (Contd. on page 3)

## 2-(2-Mothyl-2-furylthio)-1-h nta

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Product name: 3-(2-Methyl-3-furylthio)-4-heptanone			
(Contd. of page 2			
Auto igniting:	Not determined.		
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.		
Lower:	Not determined		
Upper:	Not determined		
	Not determined		
	Not determined Not determined.		
Vapor density	Not determined.		
	Not determined.		
Solubility in / Miscibility with Water:	Not miscible or difficult to mix		
Partition coefficient (n-octanol/water):			
Viscosity: dynamic:	Not determined.		
	Not determined.		
Other information	No further relevant information available.		
10 Stability and reactivity			
Reactivity No information known.			
Conditions to avoid No further relevant Incompatible materials: Oxidizing agen	be avoided: Decomposition will not occur if used and stored according to specifications. dangerous reactions known information available.		
Hazardous decomposition products: Carbon monoxide and carbon dioxide Sulfur oxides (SOx)			
11 Toxicological information Information on toxicological effects			
Acute toxicity: Harmful if swallowed.			
LD/LC50 values that are relevant for cl	assification:		
Oral LD50 425 mg/kg (mouse) Skin irritation or corrosion: Irritant to si			
Eye irritation or corrosion: Irritating effe Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno Carcinogenicity: No classification data Reproductive toxicity: No effects know	ect. wn. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n.		
Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect Additional toxicological information: 1	single exposure: No effects known.		
12 Ecological information Toxicity Aquatic toxicity: No further relevant info Persistence and degradability No furth Bioaccumulative potential No further re Mobility in soil No further relevant inforr Additional ecological information: General notes: Do not allow material to be released to th Do not allow undiluted product or large q Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevan	er relevant information available. elevant information available. nation available. ne environment without proper governmental permits. uantities to reach ground water, water course or sewage system.		
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.			
<b>A Transport information</b> Not a hazardous material for transportation			
UN-Number DOT, IMDG, IATA	None		
UN proper shipping name DOT, IMDG, IATA			
	None		
Transport hazard class(es) DOT, ADR, IMDG, IATA Class	None		
Packing group	110/17		
DOT, IMDG, IATA	None		
Environmental hazards:	Not applicable.		
Special precautions for user	Not applicable.		
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		USA	

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Transport in bulk according to Annex II of MARPOL73/78	(Contd. of page) (Contd. of page)
Transport in Burk according to American or MARY OLTS/R	Not dangerous according to the above specifications.
DOT	Not dangerous decording to the above specifications.
Marine Pollutant (DOT):	No
Regulatory information	
Safety, health and environmental regulations/legislation	specific for the substance or mixture
GHS label elements The product is classified and labeled in Hazard pictograms	n accordance with 29 CFR 1910 (OSHA HCS)
$\wedge$	
$\checkmark$	
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 proc	luct
P301+P312 IF SWALLOWED: Call a POISON CENTER/doc	ctor//if you feel unwell.
P330 Rinse mouth. P501 Dispose of contents/container in accordance wi	th local/regional/national/international regulations.
National regulations	
All components of this product are listed on the Canadian Do This product is not listed in the U.S. Environmental Protection	omestic Substances List (DSL). In Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restri
to research and development only. This product must be use	n Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restri ad 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 form SARA Section 313 (specific toxic chemical listings) Subs	stance is not listed.
California Proposition 65	
Prop 65 - Chemicals known to cause cancer Substance is Prop 65 - Developmental toxicity Substance is not listed.	s not listed.
<b>Prop 65 - Developmental toxicity, female</b> Substance is no	t listed.
Prop 65 - Developmental toxicitý, male Substance is not li Information about limitation of use: For use only by techn	ically qualified individuals
Other regulations, limitations and prohibitive regulations	e REACH Regulations (EC) No. 1907/2006. Substance is not listed. REACH Regulations (EC) No. 1907/2006. Substance is not listed. A Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on
Substance of Very High Concern (SVHC) according to the	e REACH Regulations (EC) No. 1907/2006. Substance is not listed. d Annex XVII of the Regulation (EC) No. 1907/2006 (REACH) for the manufacturing, placing on
market and use must be observed.	a Annex XVII of the Regulation (EC) No 1307/2000 (REACIT) for the manufacturing, placing on
Substance is not listed.	sation for use) Substance is not listed
Annex XIV of the REACH Regulations (requiring Authori Chemical safety assessment: A Chemical Safety Assessment:	nent has not been carried out.
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 safety of employees. This information is furnished without warranty, and any use of the product not
conformance with this Material Safety Data Sheet, or in com	bination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -	
Date of preparation / last revision 11/24/2015 / -	
RID: Règlement international concernant le transport des marchandises danger IATA-DGR: Dangerous Goods Regulations by the "International Air Transport A	euses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organization ICAO: International Civil Aviation Organization	
IMDG: International Maritime Code for Dangerous Goods DOT: IS Department of Transportation	euses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ssociation" (IATA) ' (ICAO)
IATA: International Air Transport Association	
ENECS: European Intensity 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 (CSA) LC50: Lethal concentration, 50 percent	
LDSD: Lettral ouse, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	
NTP: National Toxicology Program (USA)	