



1 Identification	
Product identifier	
Product name: <u>5-Acetyl-2-amino-4-methylthiazole</u> Stock number: L09108	
Stock number: 109108 CAS Number: 30748-47-1	
<i>SU 140-41-1</i> 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 World Vill Addapt 2000	
Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757	
Fax. 800-322-4737 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)	
GHS06 Skull and crossbones	
Acute Tox. 3 H301 Toxic if swallowed.	
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.	
Hazards not otherwisé 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	
GHS06	
Signal word Danger Hazard statements H301 Toxic if swallowed. H315 Causes serious eye irritation. H316 Causes serious eye irritation. H317 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/ P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsin P305 Store locked up. P405 Store locked up. P405 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification Dispose of contents/container in accordance with local/regional/national/international regulations. W1MIS classification system Hight for toxic reflects D28 Foxic material causing other toxic effects D28 Calestification system HMIS classification system Hight for toxic effects = 2 Hammability = 1 Phealth (acute effects) = 2 Hammability = 1 Phealth (acute effects) = 2 Hammability	ng.
Chemical characterization: Substances CAS# Description:	
30748-47-1 5-Acetyl-2-amino-4-methylthiazole	
4 First-aid measures	
Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.	
	(Contd. on page 2)

Safety Data Sheet per OSHA HazCom 2012

Product name: 5-Acetyl-2-amino-4-methylthiazole

Product name: 5-Acetyl-2-amino-4-m	ethylthiazole	
After swallowing Seek medical treatmer Information for doctor Most important symptoms and effects.	several minutes under running water. Then consult a doctor.	(Contd. of page 1)
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon of Special hazards arising from the subst If this product is involved in a fire, the follo Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Sulfur oxides (SOx) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. tance or mixture owing can be released:	
6 Accidental release measures Personal precautions, protective equip Wear protective equipment. Keep unprote Ensure adequate ventilation Environmental precautions: Do not allo Methods and material for containment Dispose of contaminated material as was Ensure adequate ventilation. Prevention of secondary hazards: No s Reference to other sections See Section 7 for information on safe har See Section 8 for information on persona See Section 13 for disposal information.	ected persons away. The environment without proper governmental permits. and cleaning up: ste according to section 13. special measures required.	
Conditions for safe storage, including Storage Requirements to be met by storeroom	explosions and fires: No information known. any incompatibilities s and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents. ditions:	
Control parameters Components with limit values that requ Additional information: No data Exposure controls Personal protective equipment General protective end hygienic measu The usual precautionary measures for ha Keep away from foodstuffs, beverages ar Remove all soiled and contaminated clott Wash hands before breaks and at the end Avoid contact with the eyes and skin. Maintain an ergonomically appropriate wo Breathing equipment: Use suitable resp Protection of hands:	f technical systems: lesigned for hazardous chemicals and having an average face velocity of at least 100 feet per minute. uire monitoring at the workplace: Not required. ures moling chemicals should be followed. not feed. hing immediately. d of work. orking environment. birator when high concentrations are present. e for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. minutes) Not determined	
9 Physical and chemical properties		
Color: Odor: Odor threshold:	mical properties Powder White Not determined Not determined.	
pH-value:	Not applicable.	(Contd on page 2)
		(Contd. on page 3) USA

Product name: 5-Acetyl-2-amino-4-methylthiazole

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Product name: 5-Acetyl-2-amino-4-m	nethylthiazole	
		(Contd. of page 2)
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	268 °C (514 °F) (decomposes) 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: Vapor pressure:	Not determined Not determined Not applicable. Not determined	
Density: Relative density Vapor density	Not determined Not determined. Not applicable.	
Evaporation rate Solubility in / Miscibility with Water:	Not applicable. Insoluble	
Partition coefficient (n-octanol/water): Viscosity:	Not determined.	
dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing agen Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Sulfur oxides (SOx)	information available.	
Reproductive toxicity: No effects know Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	in irritation. ious eye irritation. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n. • repeated exposure: No effects known. • single exposure: May cause respiratory irritation.	
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 inforn Additional ecological information: General notes:	ormation available. er relevant information available. elevant information available. mation available.	
Do not allow material to be released to the 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 releva	nt information available.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be ma	r national regulations to ensure proper disposal. ade according to official regulations.	
14 Transport information Not a hazardous material for transportati	on.	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	Control on non- 1
		(Contd. on page 4) USA

	Reviewed on 02/16/2
duct name: 5-Acetyl-2-amino-4-methylthiazole	
	(Contd. of pa
Transport hazard class(es)	
DOT, ADR, IMDG, IATA	
Class	None
Packing group DOT, IMDG, IATA	None
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and	
Transport/Additional information:	Not dangerous according to the above specifications.
DOT	
Marine Pollutant (DOT):	No
Regulatory information	
Safety, health and environmental regulations/legislation spec	cific for the substance or mixture
GHS label elements The product is classified and labeled in acc Hazard pictograms	cordance with 29 CFR 1910 (OSHA HCS)
GHS06	
Signal word Danger	
Hazard statements	
H301 Toxic if swallowed. H315 Causes skin irritation.	
H319 Causes serious eye irritation.	
H335 May cause respirátory irritation. Precautionary statements	
P261 Avoid breathing dust/fume/gas/mist/vapours/s	spray.
P280 Wear protective gloves/protective clothing/eye	é protection/face protection
P301+P310 IF SWALLOWED: Immediately call a POISON P305+P351+P338 IF IN EYES: Rinse cautiously with water for se	everal minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.	
P501 Dispose of contents/container in accordance v National regulations	with local/regional/national/international regulations.
This product is not listed in the U.S. Environmental Protection Ag	gency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restr y or directly under the supervision of a technically qualified individual as defined by TSCA. This
to research and development only. This product must be used by product must not be used for commercial purposes or in formulat	/ or directly under the supervision of a technically qualified individual as defined by TSCA. This tions for commercial purposes
product must not be used for commercial purposes or in formulat SARA Section 313 (specific toxic chemical listings) Substanc California Proposition 65	ce is not listed.
California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not	listad
Prop 65 - Chemicals known to cause cancer Substance is not Prop 65 - Developmental toxicity Substance is not listed.	
Prop 65 - Developmental toxicity, female Substance is not listed	ed.
Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically	y qualified individuals.
Other regulations, limitations and prohibitive regulations	FACIL Desculations (FC) No. 4007/2006. Substance is not listed
Substance of very high Concern (SVHC) according to the RE The conditions of restrictions according to Article 67 and An	, yaamoo manadaad EACH Regulations (EC) No. 1907/2006. Substance is not listed. nnex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on
market and use must be observed.	
Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation	on for use) Substance is not listed
Chemical safety assessment: A Chemical Safety Assessment I	
Other information	
Employers should use this information only as a supplement to of information to ensure proper use and protect the health and safet	other information gathered by them, and should make independent judgement of suitability of thi ty of employees. This information is furnished without warranty, and any use of the product not
	ty of employees." This information is furnished without warranty, and any use of the product not tion 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 / - Abbreviations and acronyms:	
RID: Règlement international concernant le transport des marchandises dangereuses IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Associa	par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) stion" (IATA)
ICAO: International Civil Aviation Organization	0)
IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation	
IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society)	
HMIS: Hazardous Materials Identification System (USA)	par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ation" (IATA) O)
LC50: Lethal concentration, 50 percent	
Whinis, workplace razardous waterials miorination System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGHL impringe Contempore of Coursements Industrial Uncleated (IICA)	
Whites, Workpace reactions waterials information System (Canada) LS50: Lethal dose, 50 percent LD50: Lethal dose, 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 (ISA)	
Whinis, Workpace razid/ous Materials information System (Canada) LSG: Lethal concentration, 50 percent VPB: 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)	