

Safety Data Sheet per OSHA HazCom 2012

Reviewed on US/16/2010
1 Identification
Product identifier Product name: 2-Amino-4-(4-pyridyl)thiazole
Stock number: H52238
CAS Number: 30235-28-0
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:
Alfa Aesar
The mos Fisher Scientific Chemicals, Inc. 30 Bond Street Word Hill Mo 01225-8000
Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-32 <u>2</u> -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
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory 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 eve 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. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P388 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.
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
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Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH I Health (acute effects) = 1
File I REACTIVITY[] 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: 30235-28-0 2-Amino-4-(4-pyridyl)thiazole
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.
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Product name: 2-Amino-4-(4-pyridyl)thiazole (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 Nitrogen oxides (NOx) Sulfur oxides (SOx) Possibly Hydrogen cyanide (HCN) 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. 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 Precautions for safe handling Handle under dry protective gas. 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. Store away from air. Further information about storage conditions: Store under dry inert gas. This product is air sensitive. 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. Avoid contact with the eyes and skin. 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: Solid Color: Light brown Not determined Odor: Odor threshold: Not determined pH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Boiling range: Not determined Not determined

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Product name: 2-Amino-4-(4-pyridyl)thiazole

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Product name: 2-Amino-4-(4-pyridyl	l)thiazole				
		(Contd. of page 2)			
Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature:	Not determined Not determined. Not determined				
Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined				
Danger of explosion:	Product does not present an explosion hazard.				
Explosion limits: Lower:	Not determined				
Upper: Vapor pressure:	Not determined Not applicable.				
Density: Relative density Versite density	Not determined Not determined.				
Vapor density Evaporation rate Solubility in / Miscibility with	Not applicable. Not applicable.				
Water: Partition coefficient (n-octanol/water)	Not determined				
Viscosity: dynamic:	Not applicable.				
kinematic: Other information	Not applicable. No further relevant information available.				
10 Stability and reactivity					
Reactivity No information known.					
Chemical stability Stable under recomi Thermal decomposition / conditions t	to be avoided: Decomposition will not occur if used and stored according to specifications.				
Possibility of hazardous reactions No Conditions to avoid No further relevan	o dangerous reactions known				
Incompatible materials: Oxidizing agents					
Air Hazardous decomposition products:					
Carbon monoxide ánd carbon dioxide Nitrogen oxides Sulfur oxides (SOX)					
Possibly Hydrogen cyanide (HCN)					
11 Toxicological information	•				
Information on toxicological effects Acute toxicity: No effects known.					
LD/LC50 values that are relevant for on Skin irritation or corrosion: Causes sh	kin irritation.				
Sensitization: No sensitizing effects kn	Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known.				
Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.					
Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known.					
Specific target organ system toxicity - single exposure: May cause respiratory irritation. 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.				
12 Ecological information					
Aquatic toxicity: No further relevant inf	Toxicity Aquatic toxicity: No further relevant information available.				
Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available.					
Additional ecological information:					
General notes: ⁻ Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.					
Avoid transfer into the environment. Results of PBT and vPvB assessment					
PBT: Not applicable.					
Other adverse effects No further releva	ant information available.				
13 Disposal considerations	•				
Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings:					
Recommendation: Disposal must be m	Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.				
14 Transport information Not a hazardous material for transportat	ion.				
UN-Number DOT, IMDG, IATA	None				
UN proper shipping name DOT, IMDG, IATA	None				
Transport hazard class(es)					
DOT, ADR, IMDG, IATA Class	None				
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Product name: 2-Amino-4-(4-pyridyl)thiazole	
	(Contd. of page 3)
Packing group DOT, IMDG, IATA	· · · · · · · · · · · · · · · · · · ·
	None
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL7: Transport/Additional information:	
DOT	Not dangerous according to the above specifications.
Marine Pollutant (DOT):	No
15 Regulatory information Safety, health and environmental regulations/legislati GHS label elements The product is classified and labele Hazard pictograms GHS07 Signal word Warning Hazard statements H315 Causes skin irritation.	i on specific for the substance or mixture d in accordance with 29 CFR 1910 (OSHA HCS)
P405 Store locked up. P501 Dispose of contents/container in acco. National regulations This product is not listed in the U.S. Environmental Protect to research and development only. This product must be product must not be used for commercial purposes or in the SARA Section 313 (specific toxic chemical listings) S California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance Prop 65 - Developmental toxicity, semale Substance is not Information about limitation of use: For use only by tee	hing/eyé protection/face protection. ter for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. air and keep comfortable for breathing. rdance with local/regional/national/international regulations. ction Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted used by or directly under the supervision of a technically qualified individual as defined by TSCA. This formulations for commercial purposes. Substance is not listed. re is not listed. ot listed. ctinically qualified individuals. ions o the REACH Regulations (EC) No. 1907/2006. Substance is not listed. and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the porsisation for use) Substance is not listed.
information to ensure proper use and protect the health a conformance with this Material Safety Data Sheet, or in c	nent to other information gathered by them, and should make independent judgement of suitability of this and safety of employees. This information is furnished without warranty, and any use of the product not 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 11/24/2015 / - Abbreviations and acronyms: RID: Reglement international concernant le transport des marchandises dar IATA-DGP: Dangerupus Goods Regulations by the "International dur Transport	t ngereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) or Association" (IATA)
ICAC: International Civil Aviation Organization ICAC: International Civil Aviation Organization ICAC-TI: Technical Instructions by the "International Civil Aviation Organizat IMDE: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association	tion" (ICAO)
CAS: Chemical Abstracts Service (division of the American Chemical Societ HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent	ngereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) nt Association" (IATA) tion" (ICAO) ty)
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) MPC: Interactional Agency for Booncorth	

NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

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