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H19 Causes serious eye initiation. H33 May cause respiratory initiation. Precautionary statements Procautionary statements Productionary stateme	Hazard statements	
P261 Avoid breathing dust/tume/gas/mist/vapours/spray. P280 protective gloves/protective protection. P280+P351+P38 IF: IN EYES; Rinse caulously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P300+P351+P38 IF: IN EYES; Rinse caulously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P300+P351+P38 IF: IN EYES; Rinse caulously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P300+P351+P38 IF: IN EYES; Rinse caulously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P300+P351+P38 IF: IN EYES; Rinse caulously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P300+P351+P38 P300+P38	H319 Causes serious eve irritation.	
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P405 Store locked up. P405 Description P405 Store locked up. P405 Description P406 Description P407 Description P408 Description P408 Descr	P280 Wear protective gloves/protective clothing/eye protection/face protection.	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D28 - Toxic material causing other toxic effects Image: Classification system HMIS ratings (scale 0-4) HMIS ratings (scale 0-4) HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1 Present Pharmability = 1 Physical Hazard = 1 Physical Hazard = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. Somposition/information on ingredients Chemical characterization: Substances CASR Description: 32325-27-9 2-Amino-4-(3-pyridyl)thiazole Souther hazards Subject of first aid measures After inhalation After shin contact Pagination. Keep patient warm. Seek immediate medical advice. After shin contact After skin contact Trapical advice. After systi contact Mark and soap and rinse thoroughly. Seek immediate medical advice. After system medical edvice. After system contact Rinse opered eye for several minutes under running water. Then consult a doctor. After system Kinsterical advice. After systex medical advice.	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, it present and easy to do. Continue finsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
D28 - Toxic material causing other toxic effects Image: Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Image: Classification system Health (acute effects) = 1 Flammability = 1 Physical Heazrd = 1 Other hazards Results of PBT and VPVB assessment PBT: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CASH Description: 30235-27-9 2-Amino-4-(3-pyridy/l)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 Immediate medical advice. After swallowing Seek medical treatment. Seek immediate medical advice. After swallowing Seek medical treatment. Seek immediate medical advice.	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
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After swallowing Seek medical treatment. (Contd. on page 2)	After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	
USA	After swallowing Seek medical treatment.	on page 2)
		USA -

Product name: 2-Amino-4-(3-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 Sulfur oxides (SOx) Nitrogen oxides (NOx) 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 product to reach sewage system or any water course. 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 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: 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 soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the aves and exin. 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 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: Pale brown Not determined Odor: Odor threshold: Not determined. Not applicable. pH-value: Change in condition Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined Not determined Not determined Not determined. Not determined Not determined

(Contd. on page 3)

Product name: 2-Amino-4-(3-pvridvl)thiazole

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	Kev	newed on 03/07/2014		
Product name: 2-Amino-4-(3-pyridy	I)thiazole			
		(Contd. of page 2)		
Auto igniting:	Not determined.			
Danger of explosion: Explosion limits:	Not determined.			
Lower:	Not determined			
Upper: Vapor pressure:	Not determined Not applicable.			
Density: Relative density	Not determined Not determined.			
Vapor density	Not applicable.			
Evaporation rate Solubility in / Miscibility with	Not applicable.			
Water:	Not determined			
Partition coefficient (n-octanol/water) Viscosity:				
dynamic: kinematic:	Not applicable. Not applicable.			
Other information	No further relevant information available.			
10 Stability and reactivity				
Reactivity No information known.				
Chemical stability Stable under recom	mended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications.			
Possibility of hazardous reactions Re	eacts with strong oxidizing agents			
Conditions to avoid No further relevant Incompatible materials: Oxidizing age	nt information available.			
Hazardous decomposition products: Carbon monoxide and carbon dioxide	1115			
Carbon monoxide and carbon dioxide Sulfur oxides (SOx) Nitrogen oxides				
Nitrogen oxidès				
11 Toxicological information				
Information on toxicological effects				
Acute toxicity: No effects known. LD/LC50 values that are relevant for o	classification: No data			
Skin irritation or corrosion: Causes s	kin irritation.			
Eye irritation or corrosion: Causes se Sensitization: No sensitizing effects kn	nown			
Germ cell mutagenicity: No effects kn	own. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.			
Reproductive toxicity: No effects know	ND.			
Specific target organ system toxicity	 repeated exposure: No effects known. 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	formation available.			
Aquatic toxicity: No further relevant in Persistence and degradability No furt Bioaccumulative potential No further	her relevant information available. relevant information available.			
Mobility in soli no further relevant information available.				
Additional ecological information: General notes:				
	quantities to reach ground water, water course or sewage system.			
Results of PBT and vPvB assessmen	nt			
PBT: Not applicable. vPvB: Not applicable.				
Other adverse effects No further relevant	ant information available.			
13 Disposal considerations				
Waste treatment methods				
Recommendation Consult state, local Uncleaned packagings:	or national regulations to ensure proper disposal.			
Recommendation: Disposal must be n	nade 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			
Packing group DOT, IMDG, IATA	Not applicable			
Environmental hazards:	Not applicable.			
Special precautions for user	Not applicable.			
	x II of MARPOL73/78 and the IBC Code Not applicable.			
		(Contd. on page 4)		

Safety Data Sheet per OSHA HazCom 2012

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	Neviewed on 03/07/2014
roduct name: 2-Amino-4-(3-pyridyl)thiazole	9
	(Contd. of page 3)
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	
15 Desculatory information	
15 Regulatory information Safety, health and environmental regulations/le GHS label elements The product is classified and Hazard pictograms	egislation specific for the substance or mixture labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
National regulations This product is not listed in the U.S. Environmental to research and development only. This product mu- product must not be used for commercial purposes This product is not listed on the Canadian Domesti SARA Section 313 (specific toxic chemical listin California Proposition 65 Prop 65 - Chemicals known to cause cancer Sul Prop 65 - Developmental toxicity Substance is no Prop 65 - Developmental toxicity, female Substance Information about limitation of use: For use only Other regulations, limitations and prohibitive re Substance of Very High Concern (SVHC) accord The conditions of restrictions according to Artic market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Chemical safety assessment: A Chemical Safety	ic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). ngs) Substance is not listed. ot listed. ance is not listed. ce is not listed. / by technically qualified individuals. guilations ding to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. icle 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the guilations for use) Substance is not listed.
information to ensure proper use and protect the he conformance with this Material Safety Data Sheet,	upplement to other information gathered by them, and should make independent judgement of suitability of this ealth and safety of employees. This information is furnished without warranty, and any use of the product not in or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Depa Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereu DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemica HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Cana LC50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent VPB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienist OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA)	artment uses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) al Society) ada) ts (USA)

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