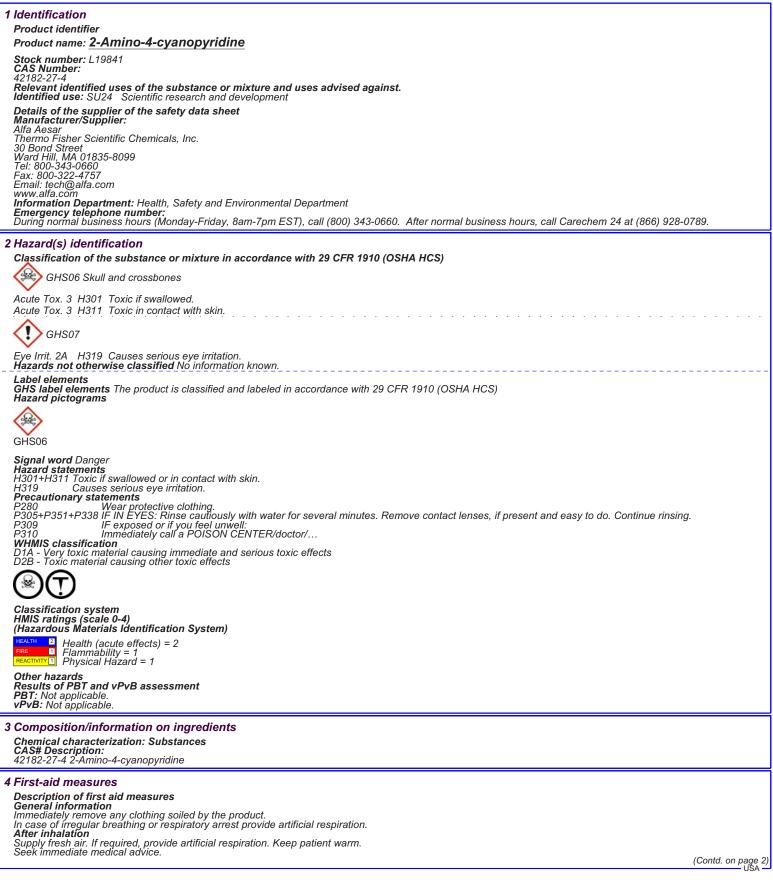


### Safety Data Sheet per OSHA HazCom 2012



# Product name: 2-Amino-4-cyanopyridine

After skin contact		(Contd. of page 1)
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 Do not induce vomiting; immediately call for medical help.		
Information for doctor Most important symptoms and effects Indication of any immediate medical a	s, both acute and delayed No further relevant information available. Ittention 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.		
If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide		
Nitrogen oxides (NOx) Hvdrogen cvanide (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 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: Dispose of contaminated material as waste according to section 13. Prevention of secondary hazards: No special measures required.		
<b>Reference to other sections</b> See Section 7 for information on safe ha	ndlina	
See Section 8 for information on persona See Section 13 for disposal information.	al protection equipment.	
7 Handling and storage		
Handling Precautions for safe handling		
Keep container tightly sealed.	containers.	
Store in cool, dry place in tightly closed of Ensure good ventilation at the workplace Information about protection against	e. explosions and fires: No information known.	
Conditions for safe storage, including Storage	any incompatibilities	
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. <b>Control parameters</b>		
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 precautionany 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. Store protective clothing separately.		
Avoid contact with the eyes. Avoid contact with the eyes and skin		
Maintain an ergonomically appropriate w Breathing equipment: Use suitable res	orking environment. pirator 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. <b>Eye protection:</b> Safety glasses		
Body protection: Protective work clothi	ng.	
9 Physical and chemical properties		
Information on basic physical and che General Information	emical properties	
Appearance: Form: Color:	Crystalline powder	
Color: Odor: Odor threshold:	Yellow Not determined Net determined	
Odor threshold: pH-value:	Not determined. Not applicable.	
Change in condition Melting point/Melting range:	148-152 °C (298-306 °F)	
Boiling point/Boiling range:	Not determined	(Contd. on page 3)
		USA USA

## Product name: 2-Amino-4-cyanopyridine

	(Contd. of page 2)	
Sublimation temperature / start:	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: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Product does not present an explosion hazard. Not determined Not applicable. Not determined Not determined. Not determined. Not applicable. Not determined Not determined. Not determined. Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.	
10 Stability and reactivity		
Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available		

- Possibility of hazardous reactions No dangerous reactions k Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen cyanide

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11 Toxicological information		
Information on toxicological effects Acute toxicity: Toxic in contact with skin. Toxic if swallowed. Danger through skin absorption. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. 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. Aspiration hazard: No effects known. Aspiration hazard: No effects known. Aspiration hazard: 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 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 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. VPvB: Not applicable. Other adverse effects No further relevant 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 made according to official regulations.		
14 Transport information		
UN-Number DOT, IMDG, IATA UN3439		

UN proper shipping name DOT IMDG, IATA Nitriles, solid, toxic, n.o.s. (2-Amino-4-cyanopyridine) NITRILES, SOLID, TOXIC, N.O.S. (2-Amino-4-cyanopyridine)

(Contd. on page 4)

#### Safety Data Sheet per OSHA HazCom 2012

Product name: 2-Amino-4-cyanopyridine (Contd. of page 3) Transport hazard class(es) DOT Class 6.1 Toxic substances. Label 6.1 Class 6.1 (T2) Toxic substances Label 6.1 IMDG, IATA Q Class 6.1 Toxic substances. Label Packing group DOT, IMDG, IATA 111 Environmental hazards: Not applicable. Special precautions for user Warning: Toxic substances Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT Marine Pollutant (DOT): No UN "Model Regulation": UN3439. Nitriles, solid, toxic, n.o.s. (2-Amino-4-cyanopyridine), 6.1, III 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 GHS06 Signal word Danger Hazard statements H301+H311 Toxic if swallowed or in contact with skin. H319 Causes serious eye irritation. H319 Causes serious eye minauon. Precautionary statements P280 Wear protective clothing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/doctor/... Numerical resultations 

 Mational 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.

 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.

 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.

 Substance is not listed.

Substance is not listed. 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. Inflormation to ensure proportional states provide and USA