

Safety Data Sheet per OSHA HazCom 2012

1 Identification Product identifier Product name: Pyridine-3-sulfonic acid Stock number: L05679 CAS Number: 636-73-7 EC number: 211-265-9 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. Inerrito Fisher Scheman C. 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: 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) EZ GHS05 Corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. 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 E.F. GHS05 Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements P260 Do not b Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P405 Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D2B - Toxic material causing other toxic effects E - Corrosive material of the Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) 2 Health (acute effects) = 21 Flammability = 1Physical 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: 636-73-7 Pyridine-3-sulfonic acid Identification number(s): EC number: 211-265-9

4 First-aid measures

Description of first aid measures

General information Immediately remove any clothing soiled by the product. 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.

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	After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed Causes severe skin burns. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available.	(Contd. of page 1)
	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) 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: Use neutralizing agent. Dispose of contaminated material as waste according to section 13. 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 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. Store away from strong bases. Further information about storage conditions: Keep container lightly sealed. Store in cool, dry conditions in well sealed containers. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.	
8	B 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 and hygienic measures General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all solied 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. Breation of hands: Imperivation of hands: Impervision gloves Check protective gloves prior to each use for their proper condition. Check protection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Eye protection Forection The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Eye protection Forection Body protection Foretotive gloves <td></td>	
9	9 Physical and chemical properties Information on basic physical and chemical properties	
	General Information Appearance: Form: Crystalline powder Color: White Odor: Not determined Odor threshold: Not determined.	(Contd. on page 3)
		USA

Pı Pyridino-2-sulfonic acid duct

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Product name: Pyridine-3-sulfonic a	ıcid	
pH-value:	Not applicable.	(Contd. of page 2)
Change in condition		
Melting point/Melting range: Boiling point/Boiling range:	>300 °C (>572 °F) Not determined	
Sublimation temperature / start:	Not determined	
Flammability (solid, gaseous)	Not applicable Not determined.	
Ignition temperature: Decomposition temperature:	Not determined Not determined	
Auto igniting: Danger of explosion:	Not determined. Product does not present an explosion hazard.	
Explosion limits: Lower:	Not determined	
Upper: Vapor pressure:	Not determined Not applicable.	
Density: Relative density	Not determined Not determined	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with Water:	Soluble	
Partition coefficient (n-octanol/water):		
Viscosity: dynamic: kinometic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.		
	to be avoided. Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions No Conditions to avoid No further relevant	dangerous reactions known t information available.	
Incompatible materials: Oxidizing agents		
Bases Hazardous decomposition products:		
Carbon monoxide and carbon dioxide Nitrogen oxides		
Sulfur oxides (SOx)		
11 Toxicological information		
Information on toxicological effects Acute toxicity: Swallowing will lead to a	a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.	
LD/LC50 values that are relevant for cl Skin irritation or corrosion: Causes se	classification: No data evere skin burns.	
Eye irritation or corrosion: Causes sen Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno	erious eye damage.	
Carcinogenicity: No classification data of	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects know	wn. • repeated exposure: No effects known. • single exposure: No effects known.	
Aspiration hazard: No effects known		
Subacute to chronic toxicity: No effect	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 info Persistence and degradability No furth	her relevant information available.	
Bioaccumulative potential No further re Mobility in soil No further relevant inforr	relevant information available.	
Additional ecological information: General notes:		
Do not allow material to be released to tr Do not allow undiluted product or large c	the environment without proper governmental permits. quantities to reach ground water, water course or sewage system.	I
Results of PBT and vPvB assessment	,t	
PBT: Not applicable. vPvB: Not applicable.		I
Other adverse effects No further releva	Int information available.	
13 Disposal considerations Waste treatment methods		I
Waste treatment methods Recommendation Consult state, local of Uncloaned packagings:	or national regulations to ensure proper disposal.	
Uncleaned packagings: Recommendation: Disposal must be ma Recommended cleansing agent: Wate	ade according to official regulations.	I
Recommended cleansing agent: Wate	ir, if necessary with cleansing agents.	
14 Transport information UN-Number		
DOT, IMDG, IATA	UN2585	
UN proper shipping name DOT	Alkyl sulfonic acids, solid	
		(Contd. on page 4)

Product name: Pyridine-3-sulfonic acid	
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IMDG, IATA	ALKYLSULPHONIC ACIDS, SOLID
Transport hazard class(es) DOT	
Class Label Class	8 Corrosive substances. 8 8 (C4) Corrosive substances
Label IMDG, IATA	8
Class Label	8 Corrosive substances. 8
Packing group DOT, IMDG, IATA	<i>III</i>
Environmental hazards:	Not applicable.
Special precautions for user Segregation groups	Warning: Corrosive substances Acids
Transport in bulk according to Annex II of MARPOL73/78 and Transport/Additional information:	d the IBC Code Not applicable.
DOT	
Marine Pollutant (DOT): UN "Model Regulation":	No UN2585, Alkyl sulfonic acids, solid, 8, III
P405 Store locked up. P501 Dispose of contents/container in accordance National regulations This product is not listed in the U.S. Environmental Protection Ac	pray. ontaminated clothing. Rinse skin with water/shower. everal minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ce vomiting. with local/regional/national/international regulations. gency, Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricte
California Proposition 65 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 Prop 65 - Developmental toxicity, male Substance is not listed Information about limitation of use: For use only by technically	ce is not listed. t listed. d. y qualified individuals. 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 the