

Safety Data Sheet per OSHA HazCom 2012

1	Identification
	Product identifier
	Product name: 2-(Methylamino)pyridine
	Stock number: B23589, L08005 CAS Number: 4597-87-9
	EC number: 224-997-9
	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.
	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)
	GHS06 Skull and crossbones
	Acute Tox. 3 H331 Toxic if inhaled.
	GHS07
	Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H312 Harmful in contact with skin.
	Skin Irrit. 2 H315 Causes skin irritation.
	Eye Irrit. 2A H319 Causes serious eye irritation.
	STOT SE 3 H335 May cause respiratory irritation. H227 Combustible liquid.
	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
	GHS06
	Signal word Danger
	Hazard statements H227 Combustible liquid.
	H302+H312 Harmful if swallowed or in contact with skin. H331 Toxic if inhaled.
	H315 Causes skin irritation. H319 Causes serious eye irritation.
	H335 May cause respiratory irritation. Precautionary statements
	P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
	P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P405 Store locked up
	P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification
	B3 - Combustible liquid D1B - Toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects
	D2B - Toxic material causing other toxic effects
	Classification system HMIS ratings (scale 0-4)
	(Hazardouš Materials Identification System)
	HEALTH Image: Arrow and the second
	Other hazards Results of PBT and vPvB assessment PBT: Not applicable.

PBT: Not applicable. **vPvB:** Not applicable.

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3 Composition/information on ingredients

Product name: 2-(Methylamino)pyridine

Chemical characterization: Substances CAS# Description: 4597-87-9 2-(Methylamino)pyridine Identification number(s): EC number: 224-997-9

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. 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) 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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: Keep away from ignition sources Prevention of secondary hazards: Keep away from ignition sources. 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: Keep ignition sources away.

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: Not required. 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 eyes and skin. Maintain an erronomically appropriate working environment. Maintain an ergonomically appropriate working environment. **Breathing equipment:** Use suitable respirator when high concentrations are present. **Protection of hands:** Protection of narios: 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. Eye protection: Safety glasses

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Product name: 2-(Methylamino)pyridine

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Body protection: Protective work clothi	ing.	(Contd. of page 2)			
9 Physical and chemical properties					
Information on basic physical and ch General Information Appearance: Form: Color: Odor:	emical properties Liquid Light yellow Not determined				
Odor threshold:	Not determined.				
pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined. 14-15 °C (57-59 °F) 200-201 °C (392-394 °F) Not determined				
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	87 °C (189 °F) Not determined Not determined Not determined Not determined.				
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): 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 determined 1.052 g/cm ³ (8.779 lbs/gal) Not determined. Not determined.				
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. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides					
11 Toxicological information Information on toxicological effects Acute toxicity: Harmful if inhaled. Harmful if contact with skin. Harmful if swallowed. Danger through skin absorption. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Carcinogenicity: 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. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known. Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) reports the following effects in laboratory animals: Behavioral - excitement. 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 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 anolicable					

PBT: Not applicable. VPvB: Not applicable. Other adverse effects No further relevant information available.

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13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulation Uncleaned packagings: Recommendation: Disposal must be made according to offi			
14 Transport information			
UN-Number DOT, IMDG, IATA	UN2810		
UN proper shipping name DOT IMDG, IATA	Toxic, liquids, organic, n.o.s. (2-(Methylamino)pyridine) TOXIC LIQUID, ORGANIC, N.O.S. (2-(Methylamino)pyridine)		
Transport hazard class(es) DOT			
Class Label Class Label IMDG, IATA	6.1 Toxic substances. 6.1 6.1 (T1) Toxic substances 6.1		
Class Label	6.1 Toxic substances. 6.1		
Packing group DOT, IMDG, IATA	III		
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): UN "Model Regulation":	No UN2810, Toxic, liquids, organic, n.o.s. (2-(Methylamino)pyridine), 6.1, III		
GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms			
Signal word Danger Hazard statements H227 Combustible liquid. H302+H312 Harmful if swallowed or in contact with skin. H314 Toxic if inhaled. H315 Causes skin initiation. H316 Causes skin initiation. H317 Causes skin initiation. H318 Causes skin initiation. H319 Causes skin initiation. H319 Causes skin initiation. H319 Causes skin initiation. H32 Avoid breathing dust/tume/gas/mist/vapours/spray. P210 Keep away from head/sparks/open flames/hot surfaces. No smoking. P211 Avoid breathing dust/tume/gas/mist/vapours/spray. P280 Biopseo of contents/container in accordance with local/regional/national/international regulations. National regulations Int EVES. Rinse cautiously with water for several minutes. Remove control Act Chemical Substance Inventory. Use of this product is restricter 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 uses to be used for commercial purposes. SARA Section 313 (specific toxic chemical listed. Frop 65 - Development only. This product listed. Frop 65 - Developmental toxicity, female Substance is not listed. Frop 65 - Development all toxici			
Chemical safety assessment: A Chemical Safety Assessm	ent has not been carried out. (Contd. on page 5		

Product name: 2-(Methylamino)pyridine

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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. Conformance with this Material Safety Data Sheet, or 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 11/23/2015 /
Abbreviations and acronyms:

RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Civil Aviation Organization" (IATA)
ICAO: The retinational Civil Aviation Organization
ICAO: The retinational Civil Aviation Organization
ICAO: The retinational Civil Aviation Organization
ICAO: Thermational Maritime Code for Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transport Association
IATA: International Air Transport A

USA