

2-Fluoro-4-methylpyridine Safety Data Sheet 3H32324 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/20/2018 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 2-Fluoro-4-methylpyridine
CAS No	: 461-87-0
Product code	: 3H32-3-24
Formula	: C6H6FN
Synonyms	: 2-Fluoro-4-picoline
Other means of identification	: MFCD00041224
	substance or mixture and uses advised against
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances
	Scientific research and development
1.3. Details of the supplier of the sa	fety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab	
1.4. Emergency telephone number	(044) 500 4000 (0E Oserana Associated 40000)
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificat	ion
2.1. Classification of the substance	
Classification (GHS-US)	
Flam. Liq. 3H226 - Flammable liquid and Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eyeSTOT SE 3H335 - May cause respiratorFull text of H-phrases: see section 16	irritation
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS02 GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	 H226 - Flammable liquid and vapor H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	 P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical/ventilating/lighting equipment P242 - Use only non-sparking tools
	 P243 - Take precautionary measures against static discharge P261 - Avoid breathing fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

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	lense P312 P321 P332 P337 P362 P370 P403 P403 P403	+P351+P338 - If in eyes: Rinse cautious s, if present and easy to do. Continue rir - Call a POISON CENTER or doctor/ph +P313 - If skin irritation occurs: Get med +P313 - If eye irritation persists: Get med +P364 - Take off contaminated clothing +P378 - In case of fire: Use dry sand, dr +P233 - Store in a well-ventilated place. +P235 - Store in a well-ventilated place. - Store locked up - Dispose of contents/container to an ap	sing ysician if you fe first aid instruct lical advice/atte dical advice/att and wash it bef y chemical or a Keep containe Keep cool	eel unwell ions on this label) ention ention fore reuse ilcohol-resistant foam to extinguish r tightly closed
2.3. Other hazards				
Other hazards not contributing to the classification	: In use	e may form flammable/explosive vapor-a	ir mixture.	
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/information	on on in	gredients		
3.1. Substance				
Substance type	: Mono	-constituent		
Name		Product identifier	%	Classification (GHS-US)
2-Fluoro-4-methylpyridine (Main constituent)		(CAS No) 461-87-0	<= 100	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16				
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general	where	e of accident or if you feel unwell, seek possible). Move the affected personnel	l away from the	contaminated area.
First-aid measures general First-aid measures after inhalation	where : Remo respir	e possible). Move the affected personnel ove person to fresh air and keep comfort ation. Get medical advice/attention.	l away from the able for breath	e contaminated area. ing. If not breathing, give artificial
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SECTION 6: Accidental release meas	ures
6.1. Personal precautions, protective equ	
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.
6.2. Environmental precautions	
Avoid release to the environment. Notify authoritie	es if product enters sewers or public waters.
6.3. Methods and material for containment	nt and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for cleaning up	: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, includin	g any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

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SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 155 - 156 °C
Flash point	: 51 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.078 g/ml
Molecular mass	: 111.1169 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
Refractive index	: 1.473 (@ 20 °C)
SECTION 10: Stability and reactivit	У
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and st	torage conditions.
10.3. Possibility of hazardous reactions	;
No additional information available	
10.4. Conditions to avoid	
Keep away from heat, sparks and flame.	
10.5. Incompatible materials	
10.5. Incompatible materials Strong oxidizing agents.	ts.
10.5.Incompatible materialsStrong oxidizing agents.10.6.Hazardous decomposition product	
10.5.Incompatible materialsStrong oxidizing agents.10.6.Hazardous decomposition product	ts azardous decomposition products should not be produced. Hazardous decomposition products in case of
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10.5.Incompatible materialsStrong oxidizing agents.10.6.Hazardous decomposition productUnder normal conditions of storage and use, have fire, see Section 5.SECTION 11: Toxicological information11.1.Information on toxicological effectAcute toxicity	azardous decomposition products should not be produced. Hazardous decomposition products in case of ation ts : Not classified

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Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECT	ION 12: Ecological information
12.1.	Toxicity
No addi	itional information available
12.2.	Persistence and degradability
No addi	itional information available
12.3.	Bioaccumulative potential
No addi	itional information available
12.4.	Mobility in soil
No addi	itional information available
12.5.	Other adverse effects
No addi	itional information available

SECTION 13: Disposal consideration	IS
13.1. Waste treatment methods	
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols : UN1993 Flammable liquids, n.o.s., 3, III

: UN1993

- : Flammable liquids, n.o.s.
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : 3 Flammable liquid



: III - Minor Danger

: 203

- : 242
- : G Identifies PSN requiring a technical name

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DOT Packaging Exceptions (49 CFR 173.xxx): 15DOT Quantity Limitations Passenger aircraft/rail: 60(49 CFR 173.27): 22DOT Quantity Limitations Cargo aircraft only (49: 22CFR 175.75): 15DOT Vessel Stowage Location: A - paOther information: NoTDGNo additional information availableTransport by sea	D L
DOT Quantity Limitations Passenger aircraft/rail: 60(49 CFR 173.27)DOT Quantity Limitations Cargo aircraft only (49: 22DOT Quantity Limitations Cargo aircraft only (49: 22CFR 175.75)DOT Vessel Stowage Location: A -DOT Vessel Stowage Location: A -other information: NoTDGNo additional information availableTransport by sea	
CFR 175.75) DOT Vessel Stowage Location : A - pa Other information : No TDG No additional information available Transport by sea	201
pa Other information : No TDG No additional information available Transport by sea	
TDG No additional information available Transport by sea	- The material may be stowed "on deck" or "under deck" on a cargo vessel and on a assenger vessel.
No additional information available Transport by sea	o supplementary information available.
Transport by sea	
UN-No. (IMDG) : 19	993
Proper Shipping Name (IMDG) : FL	LAMMABLE LIQUID, N.O.S.
Class (IMDG) : 3 -	- Flammable liquids
Packing group (IMDG) : III	- substances presenting low danger
Air transport	
UN-No. (IATA) : 19	993
Proper Shipping Name (IATA) : Fla	ammable liquid, n.o.s.
Class (IATA) : 3 -	- Flammable Liquids
Packing group (IATA) : III	- Minor Danger
SECTION 15: Regulatory information	
15.1. US Federal regulations	

Substances Control Act (TSCA) inventory except for:

2-Fluoro-4-methylpyridine	CAS No 461-87-0	100%
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This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

2-Fluoro-4-methylpyridine (461-87-0)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

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15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
	Flam. Liq. 3	Flammable liquids Category 3
	Skin Irrit. 2	Skin corrosion/irritation Category 2
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H226	Flammable liquid and vapor
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
NFPA 1	iire hazard	 residual injury even though prompt medical attention was given. 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
NFPA I	reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS I	II Rating	
Health		: 2 Moderate Hazard - Temporary or minor injury may occur
Flamm	ability	: 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
Physica	al	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

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