

Safety Data Sheet 3H323Y4 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/19/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 4-Methyl-2,3,5,6-tetrafluoropyridine
CAS No	: 16297-14-6
Product code	: 3H32-3-Y4
Formula	: C6H3F4N
Other means of identification	: MFCD00012345
	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 - <u>www.synquestlab</u>	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificat	ion
2.1. Classification of the substance	
Classification (GHS-US)	
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato	irritation
Eye Irrit. 2AH319 - Causes serious eyeSTOT SE 3H335 - May cause respiratorFull text of H-phrases: see section 162.2.Label elements	irritation
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16	irritation ry irritation
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	irritation ry irritation
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	irritation ry irritation
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 irritation ry irritation : irritation : irritation : irritation : irritation : Warning : H226 - Flammable liquid and vapor H315 - Causes skin irritation H319 - Causes serious eye irritation

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	lenses, if present and easy to do. Con P312 - Call a POISON CENTER or do P321 - Specific treatment (see supple P332+P313 - If skin irritation occurs: 0 P362+P364 - Take off contaminated o P370+P378 - In case of fire: Use dry s P403+P233 - Store in a well-ventilated P403+P235 - Store in a well-ventilated P405 - Store locked up P501 - Dispose of contents/container	octor/physician if you f mental first aid instruct Get medical advice/att Get medical advice/att clothing and wash it be sand, dry chemical or d place. Keep contain d place. Keep cool	ctions on this label) cention ttention efore reuse alcohol-resistant foam to extinguish er tightly closed
2.3. Other hazards No additional information available			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/information	on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
4-Methyl-2,3,5,6-tetrafluoropyridine (Main constituent)	(CAS No) 16297-14-6	<= 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	: In case of accident or if you feel unwe where possible). Move the affected pe	ersonnel away from th	e contaminated area.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get medical advice/attention.		
	: Wash with plenty of soap and water. (
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.		
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.		
4.2. Most important symptoms and effect			
Symptoms/injuries	: The most important known symptoms 2.2) and/or in section 11.	and effects are descr	ibed in the labelling (see section
4.3. Indication of any immediate medical	attention and special treatment neede	d	
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide appropriate for surrounding fire.	e. Dry powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from the sub	stance or mixture		
	: Thermal decomposition generates: Ca		•
Explosion hazard	: Risk of explosion if heated under conf containers. May form flammable/explo		
5.3. Advice for firefighters			
	: In case of fire: Evacuate area. Fight fi		
Protection during firefighting	: Wear gas tight chemically protective of apparatus. For further information refe		

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SECTION 6: Accidental release meas			
6.1. Personal precautions, protective equipment and emergency procedures General measures : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes,			
General measures	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 containme			
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, including any incompatibilities			
Technical measures	: Comply with applicable regulations.		
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources. Keep contents under inert gas.		
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		
рН	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: 130 - 131 °C		
Flash point	: 32 °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	: 1.44 g/ml (@ 20 °C)		
Molecular mass	: 165.09 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	: 1.414 (@ 20 °C)		
SECTION 10: Stability and reactivit	V		
10.1. Reactivity	y		
No additional information available			
10.2. Chemical stability	torogo conditions		
The product is stable at normal handling and s	-		
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			
Acids. Acid chlorides. Acid anhydrides. Carbor	dioxide. Strong oxidizing agents.		
10.6. Hazardous decomposition produc	ts		
Under normal conditions of storage and use, h		d not be produced. Hazardous decompositio	on products in case of
fire, see Section 5.		•	
SECTION 11: Toxicological information	ation		
11.1. Information on toxicological effect			
Acute toxicity	: Not classified		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	: Causes serious eye irritation.		
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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 additional information available			
12.2.	Persistence and degradability		
No addi	tional information available		
12.3.	Bioaccumulative potential		
No addi	No additional information available		
12.4.	Mobility in soil		
No addi	tional information available		
12.5.	Other adverse effects		
No additional information available			

SECTION 13: Disposal considerations			
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 Special Provisions (49 CFR 172.102)	 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 1993
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S.
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 1993
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: III - Minor Danger
SECTION 15: Regulatory information	
15.1. US Federal regulations	
All components of this product are listed or exc	luded from listing on the United States Environmental Protection Agency Toxic

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

4-Methyl-2,3,5,6-tetrafluoropyridine CAS No 16297-14-6 100%		CAS NO 10297-14-0	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

No additional information available

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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

Full text of H-phrases:

	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	
	nealth hazard	 : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. : 3 - Liquids and solids that can be ignited under almost all 	
		ambient conditions.	
NFPA ı	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	
Flamma	ability	 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC) 	
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)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.