

2,3,5-Trifluoropyridine Safety Data Sheet 3H32389 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	: 2,3,5-Trifluoropyridine	
CAS No	: 76469-41-5	
Product code	: 3H32-3-89	
Formula	: C5H2F3N	
Other means of identification	: MFCD03001162	
1.2. Relevant identified uses of the su	ostance or mixture and uses advised agai	inst
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development	
1.3. Details of the supplier of the safe	y data sheet	
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.com	<u>om</u>	
1.4. Emergency telephone number	/	
Emergency number	: (844) 523-4086 (3E Company - Accou	nt 10069)
SECTION 2: Hazard(s) identificatio	n	
2.1. Classification of the substance or	mixture	
Classification (GHS-US)		
Eye Irrit. 2A H319 - Causes serious eye irri STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements		
GHS-US labeling		
Hazard pictograms (GHS-US)	: GHS02 GHS07	
Signal word (GHS-US)	: Warning	
Hazard statements (GHS-US)	<ul> <li>H226 - Flammable liquid and vapor H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation</li> </ul>	ı
Precautionary statements (GHS-US)	P302+P352 - If on skin: Wash with ple P303+P361+P353 - If on skin (or hair) skin with water/shower P304+P340 - If inhaled: Remove perso	ceiving equipment ventilating/lighting equipment against static discharge bray, vapors ndling ventilated area ive clothing/eye protection/face protection

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2,3,5-Trifluoropyridine (Main constituent)       (CAS No) 76469-41-5       <= 100       Flam. Liq. : Skin Irrit. 2 Eye Irrit. 2/ STOT SE 3         Full text of H-phrases: see section 16       3.2.       Mixture Not applicable          SECTION 4: First aid measures           First-aid measures general       : In case of accident or if you feel unwell, seek medical advice immediately where possible). Move the affected personnel away from the contaminate respiration. Get medical advice/attention.         First-aid measures after skin contact       : Wash with plenty of soap and water. Get medical advice/attention.		
2.4.       Unknown acute toxicity (GHS US)         Not applicable         SECTION 3: Composition/information on ingredients         3.1.       Substance         Substance type       : Mono-constituent         None-constituent         Name         2.3.5-Tifluoropyridine         (Main constituent)       (CAS No) 76469-41-5         Colspan="2">Colspan="2">Classific         2.3.5-Tifluoropyridine         (Main constituent)       (CAS No) 76469-41-5         Colspan="2">Classific         Colspan="2">Classific         Status of H-phrases: see section 16         3.2.         Mixture         Not applicable         SECTION 4: First aid measures         First-aid measures general         First-aid measures after inhalation         First-aid measures after skin contact         First-aid measures after skin contact         First-aid measures after ingestion         Col NO Tifuce vomiting. Never give anything by mouth to an unconscion mouth out with water. Get medical advice/attention.         First-aid measures after ingestion         Col		
Not applicable         SECTION 3: Composition/information on ingredients         3.1.       Substance         Substance type       : Mono-constituent         Name       Product identifier       %       Classific         2.3.5.Trifluoropyridine       (CAS No) 76469-41-5       <= 100		
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Substance type       : Mono-constituent         Name       Product identifier       %       Classific         2,3,5-Trifluoropyridine       (CAS No) 76469-41-5       <= 100		
Name         Product identifier         %         Classific           2,3.5-Triffuropyridine         (CAS No) 76469-41-5         <= 100		
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SECTION 5: Firefighting measures         5.1.       Extinguishing media		
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	<u></u>	
appropriate for surrounding fire.		
5.2. Special hazards arising from the substance or mixture	inguishing media	
Fire hazard : Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Nit	inguishing media	
Explosion hazard       : Risk of explosion if heated under confinement. Use water spray or fog for containers. May form flammable/explosive vapor-air mixture.		
5.3. Advice for firefighters	ogen oxides.	
Firefighting instructions : In case of fire: Evacuate area. Fight fire remotely due to the risk of explose	ogen oxides.	
Protection during firefighting : Wear gas tight chemically protective clothing in combination with self con apparatus. For further information refer to section 8: "Exposure controls/p	ogen oxides. cooling exposed	

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SECTION 6: Accidental release meas			
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 containmer	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, 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 chemica			
9.1. Information on basic physical and			
Physical state	: Liquid		
Color	: No data available		
Ddor	: No data available		
Ddor threshold	: No data available		
bH	: No data available		
Aelting point	: No data available		
Freezing point	: No data available		
Boiling point	: 102 °C		
Flash point	: 30 °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		
Dxidizing properties	: No data available		
/apor pressure	: No data available		
Relative density	: No data available		
Relative vapor density at 20 °C	: No data available		
Specific gravity / density	: 1.499 g/ml (@ 20 °C)		
Aolecular mass	: 133.07 g/mol		
Solubility	: No data available		
.og Pow	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
/iscosity	: No data available		
/iscosity, kinematic	: No data available		
/iscosity, dynamic	: No data available		
9.2. Other information			
Refractive index	: 1.422 (@ 20 °C)		
SECTION 10: Stability and reactivity	ty		
10.1. Reactivity			
No additional information available			
10.2. Chemical stability			
The product is stable at normal handling and s	storage conditions.		
0.3. Possibility of hazardous reactions	5		
lo additional information available			
0.4. Conditions to avoid			
Keep away from heat, sparks and flame.			
0.5. Incompatible materials			
Acids. Acid chlorides. Acid anhydrides. Carbo	n dioxide. Strong oxidizing agents.		
10.6. Hazardous decomposition produc			
Under normal conditions of storage and use, h fire, see Section 5.		ld not be produced. Hazardous decompositi	on products in case c
SECTION 11: Toxicological inform	ation		
I1.1. 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 Specific target organ toxicity (single exposure)	: Not classified : 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 additional information available			
12.3.	Bioaccumulative potential		
No additional information available			
12.4.	Mobility in soil		
No additional 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)	<ul> <li>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.</li> <li>B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.</li> <li>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).</li> <li>T4 - 2.65 178.274(d)(2) Normal</li></ul>
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
<b>SECTION 15: Regulatory information</b>	
15.1. US Federal regulations	
All second sectors fills's manufactures l'stand an ever	haded from the transmission of the United Oteland Free income and Device the American Transmission

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:

	2	2,3,5-Trifluoropyridine	CAS No 76469-41-5	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:

Serious eye damage/eye irritation Category 2A
Flammable liquids Category 3
Skin corrosion/irritation Category 2
Specific target organ toxicity (single exposure) Category 3
Flammable liquid and vapor
Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation
<ul> <li>3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.</li> <li>3 - Liquids and solids that can be ignited under almost all ambient conditions.</li> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> </ul>
<ul> <li>2 Moderate Hazard - Temporary or minor injury may occur</li> <li>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 &amp; IC)</li> </ul>

Physical

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.

: 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.