

3,4,5-Trifluoropyridine Safety Data Sheet 3H3231V according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/29/2017 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 3,4,5-Trifluoropyridine		
CAS No	: 67815-54-7		
Product code	: 3H32-3-1V		
Formula	: C5H2F3N		
Other means of identification	: MFCD09998883		
1.2. Relevant identified uses of the sub	stance 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 safety	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.co	<u>)m</u>		
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Company - Account 10069)		
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or			
Classification (GHS-US)			
Full text of H-phrases: see section 16 2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)			
	GHS07		
Signal word (GHS-US)	GHS07 : Warning		
Signal word (GHS-US) Hazard statements (GHS-US)			

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2.3. Other hazards						
No additional information available						
2.4. Unknown acute toxicity (GHS US)						
Not applicable						
SECTION 3: Composition/informati	on on in	gredients				
3.1. Substance						
Substance type	: Mono	p-constituent				
Name Product identifier % Classification (GHS-US)						
3,4,5-Trifluoropyridine (CAS No) 67815-54-7 <= 100 Skin Irrit. 2, H315 (Main constituent) 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	se of accident or if you feel unwell, seek e possible). Move the affected personnel	away from the	contaminated area.		
First-aid measures after inhalation	respi	ove person to fresh air and keep comforta ration. Get medical advice/attention.				
First-aid measures after skin contact		n with plenty of soap and water. Get med				
First-aid measures after eye contact	prese	ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get	medical advice	/attention.		
First-aid measures after ingestion		OT induce vomiting. Never give anything h out with water. Get medical advice/atte		unconscious person. Rinse		
4.2. Most important symptoms and effective of the symptometry of the s	ects, both	acute and delayed				
Symptoms/injuries	Symptoms/injuries : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.					
4.3. Indication of any immediate medic	al attentio	n and special treatment needed				
Treat symptomatically.						
SECTION 5: Firefighting measures						
5.1. Extinguishing media						
Suitable extinguishing media		nol resistant foam. Carbon dioxide. Dry popriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media		
5.2. Special hazards arising from the s	ubstance	or mixture				
Fire hazard	: Therr	nal decomposition generates: Carbon ox	des. Hydrogen	fluoride. Nitrogen oxides.		
Explosion hazard		of explosion if heated under confinement iners.	. Use water spr	ay or fog for cooling exposed		
5.3. Advice for firefighters						
Firefighting instructions		se of fire: Evacuate area. Fight fire remot		•		
Protection during firefighting		gas tight chemically protective clothing i ratus. For further information refer to sec				
SECTION 6: Accidental release me	asu <u>res</u>					
6.1. Personal precautions, protective e		and emergency procedures				
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 suitab	le protective eq	uipment may intervene.		
6.1.2. For emergency responders						
Protective equipment	; Do no	ot attempt to take action without suitable	protective equir	oment. For further information		
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.						

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6.2. Environmental precaut	Environmental precautions			
Avoid release to the environment. I	Notify authorities if product enters sewers or public waters.			
.3. Methods and material for containment 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 sect	tions			
No additional information available				
SECTION 7: Handling and	storage			
7.1. Precautions for safe ha	andling			
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.			
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 sto	rage, including any incompatibilities			
Technical measures	: Comply with applicable regulations.			
O	: Keep container closed when not in use.			
Storage conditions				
Storage conditions Incompatible materials	: Refer to Section 10 on Incompatible Materials.			

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.		

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 Odor threshold : No data available PH : No data available Melting point : No data available Freezing point : No data available Boiling point : 85 - 87 °C Flash point : No data available Relative evaporation rate (butyl acetate=1) : No data available Explosion limits : No data available Explosion limits : No data available Oxidizing properties : No data available Vapor pressure : No data available	SECTION 9: Physical and chemica	al properties		
Color:No data availableOdor:No data availableOdor threshold:No data availablepH:No data availableMelting point:No data availableFreezing point:No data availableBoiling point:No data availableBoiling point:85 - 87 °CFlash point:No data availableRelative evaporation rate (butyl acetate=1):No data availableFlammability (solid, gas):No data availableExplosion limits:No data availableExplosive properties:No data availableOxidzing properties:No data availableVapor pressure:No data available	9.1. Information on basic physical an	d chemical properties		
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Oxidizing properties : No data available Vapor pressure : No data available	Explosion limits	: No data available		
Vapor pressure : No data available	Explosive properties	: No data available		
	Oxidizing properties	: No data available		
02/20/2017 EN (English US) SDS (D) 2022231/	Vapor pressure	: No data available		
	03/29/2017	EN (English US)	SDS ID: 3H3231V	3/6

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Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 133.07 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** No additional information available

SECT	ION 10: Stability and reactivity			
10.1.	Reactivity			
No additional information available				
10.2.	Chemical stability			
The pro	duct is stable at normal handling and storage conditions.			
10.3.	Possibility of hazardous reactions			
No addi	tional information available			
10.4.	Conditions to avoid			
Keep away from heat, sparks and flame.				
10.5.	Incompatible materials			
Strong of	oxidizing agents.			
10.6.	Hazardous decomposition products			
Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.				

Acute toxicity	: Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	 Causes skin irritation. Causes serious eye irritation. Not classified Not classified
Carcinogenicity	: Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	Not classifiedMay cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECT	ION 12: Ecological information
12.1.	Toxicity
No add	tional information available
12.2.	Persistence and degradability
No add	tional information available
12.3.	Bioaccumulative potential
No add	tional information available

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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal conside	rations		
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 con	tents/container in accordance v	with licensed collector's sorting instructions.
Additional information	: Recycle the ma	aterial as far as possible.	
SECTION 14: Transport informa	ation		
Department of Transportation (DOT)			
In accordance with DOT			
Not regulated for transport			
TDG			
No additional information available			
Fransport by sea			
No additional information available			
Air transport			
No additional information available			
SECTION 15: Regulatory inform	nation		
15.1. US Federal regulations			
All components of this product are listed Substances Control Act (TSCA) inventor		on the United States Environm	ental Protection Agency Toxic
3.4.5-Trifluoropyridine		CAS No 67815-54-7	100%

3,4,5-Trifluoropyridine	CAS No 67815-54-7	100%
This product or mixture does not contain a taxic chemical or chemic	ale in excess of the applicable de	minimic concentration on aposition in 10

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

3,4,5-Trifluoropyridine (67815-54-7)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

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

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Full text of H-phrases:		
	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
	Skin Irrit. 2	Skin corrosion/irritation Category 2
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
NFPA health hazard		: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard		: 1 - Must be preheated before ignition can occur.
NFPA	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
Flammability		 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical		: 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	G (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.