

Safety Data Sheet 3H553X1 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/15/2019 Version: 1.0

1.1. Identification		
Product form	: Substance	
Substance name	: 3-Amino-5-fluoropyridine-2-carbonitrile	
CAS No	: 1374115-60-2	
Product code	: 3H55-3-X1	
Formula	: C6H4FN3	
Synonyms	: 3-Amino-5-fluoropicolinonitrile; 3-Amino-2-cyano-5-fluoropyridine	
Other means of identification	: MFCD20259119	
	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@synguestlabs.com - www.synguestlab		
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	or mixture	
Classification (GHS-US)		
Acute Tox. 4 (Inhalation) H332 - Harmful Skin Irrit. 2 H315 - Causes Eye Irrit. 2A H319 - Causes		
Full text of H-phrases: see section 16		
2.2. Label elements		
GHS-US labeling		
•		
•	: GHS07	
Hazard pictograms (GHS-US)		
Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	: GHS07 : Warning : H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation	
Hazard pictograms (GHS-US) Signal word (GHS-US)	 Warning H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation 	

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	P330 - Rinse mouth P332+P313 - If skin irritation occurs: P337+P313 - If eye irritation persists: P362+P364 - Take off contaminated P403+P233 - Store in a well-ventilate P405 - Store locked up P501 - Dispose of contents/container	: Get medical advice/a clothing and wash it b ed place. Keep contain	attention before reuse her tightly closed
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US	5)		
Not applicable			
SECTION 3: Composition/informa	ation on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
3-Amino-5-fluoropyridine-2-carbonitrile (Main constituent)	(CAS No) 1374115-60-2	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 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 unwo	ell, seek medical advi	ce immediately (show the label
nistaiu measures general	where possible). Move the affected p		
First-aid measures after inhalation	: Remove person to fresh air and keep respiration. Get immediate medical a		thing. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap and water.		
First-aid measures after eye contact	: Immediately flush eyes thoroughly wi present and easy to do. Continue ring	sing. Get immediate n	nedical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give mouth out with water. Get immediate	medical advice/atten	an unconscious person. Rinse tion.
4.2. Most important symptoms and e		· •	
Symptoms/injuries	: The most important known symptoms 2.2) and/or in section 11.	s and effects are desc	ribed in the labelling (see section
4.3. Indication of any immediate med	lical attention and special treatment need	ed	
Treat symptomatically.			
SECTION 5: Firefighting measure	S		
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxic appropriate for surrounding fire.	de. Dry powder. Wate	r spray. Use extinguishing media
5.2. Special hazards arising from the			
Fire hazard	: Thermal decomposition generates: C	arbon oxides. Hydrog	en fluoride. Nitrogen oxides.
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area.		
Protection during firefighting	: Wear gas tight chemically protective apparatus. For further information ref		
SECTION 6: Accidental release m	easures		
6.1. Personal precautions, protective	e equipment and emergency procedures		
General measures	: Evacuate unnecessary personnel. Er	nsure adequate air ve	ntilation. Do not breathe dust.
6.1.1. For non-emergency personnel			
Emergency procedures	: Only qualified personnel equipped wi	ith suitable protective	equipment may intervene.

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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".
6.2. Environmental precautions	
Avoid release to the environment. Notify	authorities if product enters sewers or public waters.
6.3. Methods and material for cor	ntainment and cleaning up
For containment	: Stop leak if safe to do so.
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
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 store	age
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. Hygroscopic. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
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	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available

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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
Molecular mass	: 137.1145 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

SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and storage 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	
Strong acids. Strong 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 cas	e of

fire, see Section 5.

SECTION 11: Toxicological information

Information on toxicological effects 11.1.

Acute toxicity

: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.

3-Amino-5-fluoropyridine-2-carbonitrile (1374115-60-2)	
ATE US (oral)	500.000 mg/kg body weight
ATE US (dermal)	1100.000 mg/kg body weight
ATE US (gases)	4500.000 ppmV/4h
ATE US (vapors)	11.000 mg/l/4h
ATE US (dust, mist)	1.500 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
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

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Aspirati	on hazard	: Not classified
SECT	ON 12: Ecological information	
12.1.	Toxicity	
No addi	tional information available	
12.2.	Persistence and degradability	
No addi	tional information available	
12.3.	Bioaccumulative potential	
No addi	tional information available	
12.4.	Mobility in soil	
No addi	tional information available	
12.5.	Other adverse effects	
No addi	tional information available	

SECTION 13: Disposal consider	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 contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.
SECTION 14: Transport informa	tion
Department of Transportation (DOT)	

In accordance with DOT Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

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:

3-Amino-5-fluoropyridine-2-carbonitrile	CAS No 1374115-60-2	100%

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

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

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SECTION 16: Other information

	Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
	Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
	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
	H302	Harmful if swallowed
	H312	Harmful in contact with skin
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H332	Harmful if inhaled
	H335	May cause respiratory irritation
NFPA f	nealth hazard ire hazard eactivity	 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. 0 - Materials that will not burn. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS II	I Rating	
Health		: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flamma	ability	: 0 Minimal Hazard - Materials that will not burn
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.