

# **5-Bromo-3-hydrazinyl-2-methoxypyrazine** Safety Data Sheet 4H399X1 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 07/17/2017 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 5-Bromo-3-hydrazinyl-2-meth	oxypyrazine	
CAS No	: 1334135-54-4		
Product code	: 4H39-9-X1		
Formula	: C5H7BrN4O		
Synonyms	: 6-Bromo-2-hydrazinylidene-3	methoxy-1,2-dihydropyrazine	
Other means of identification	: MFCD22375534		
1.2. Relevant identified uses of the su	bstance or mixture and uses advi	sed against	
Use of the substance/mixture	: Laboratory chemicals		
	Manufacture of substances Scientific research and develo	ppment	
1.3. Details of the supplier of the safet	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@synguestlabs.com - www.synguestlabs.c	om		
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Company	- Account 10069)	
SECTION 2: Hazard(s) identificatio			
2.1. Classification of the substance or	mixture		
Classification (GHS-US)			
Acute Tox. 4 (Oral) H302 - Harmful if swalle			
Skin Irrit. 2 H315 - Causes skin irrit			
Eye Irrit. 2A H319 - Causes serious STOT SE 3 H335 - May cause resp			
Full text of H-phrases: see section 16			
·			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	· · · •		
	GHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H302 - Harmful if swallowed		
	H315 - Causes skin irritation		
	H319 - Causes serious eye ir		
	H335 - May cause respiratory	irritation	
Precautionary statements (GHS-US)	: P261 - Avoid breathing dust,		
	P264 - Wash skin thoroughly P270 - Do not eat, drink or sn		
	P270 - Do not eat, drink of sh P271 - Use only outdoors or i		
		s/protective clothing/eye protection/face protectio	n
	P301+P312 - If swallowed: C	all a POISON CENTER or doctor/ physician if yo	
		with plenty of soap and water	broothin ~
		ove person to fresh air and keep comfortable for Rinse cautiously with water for several minutes :	
	lenses, if present and easy to		. Romove contact
	P312 - Call a POISON CENT	ER or doctor/physician if you feel unwell	
		e supplemental first aid instructions on this label)	
	P330 - Rinse mouth		
	P332+P313 - It skin irritation	occurs: Get medical advice/attention	
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	P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant				
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					
	: Mono-constituent				
Name	Product identifier	%	Classification (GHS-US)		
5-Bromo-3-hydrazinyl-2-methoxypyrazine	(CAS No) 1334135-54-4	<b>78</b> <= 100	Acute Tox. 4 (Oral), H302		
(Main constituent)	(CAS N0) 1334133-34-4	<= 100	Skin Irit. 2, H315 Eye Irit. 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 unwell, seek n where possible). Move the affected personnel				
First-aid measures after inhalation	: Remove person to fresh air and keep comforta respiration. Get immediate medical advice/atte		g. If not breathing, give artificial		
First-aid measures after skin contact	: Wash with plenty of soap and water. Get imme	diate medical a	dvice/attention.		
First-aid measures after eye contact	<ul> <li>Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.</li> </ul>				
First-aid measures after ingestion	<ul> <li>Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.</li> </ul>				
4.2. Most important symptoms and effects					
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 medical a	attention and special treatment needed				
Treat symptomatically.					
SECTION 5: Firefighting measures					
5.1. Extinguishing media					
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. Dry po appropriate for surrounding fire.	wder. Water sp	ray. Use extinguishing media		
5.2. Special hazards arising from the subs	stance or mixture				
Fire hazard	: Thermal decomposition generates: Carbon oxides. Hydrogen bromide. Nitrogen oxides.				
5.3. Advice for firefighters					
	: In case of fire: Evacuate area.				
	: Wear gas tight chemically protective clothing ir apparatus. For further information refer to sect				
SECTION 6: Accidental release measure	ures				
6.1. Personal precautions, protective equi	ipment and emergency procedures				
	: Evacuate unnecessary personnel. Ensure ade	quate air ventila	ation. Do not breathe dust.		
6.1.1. For non-emergency personnel		o protoctivo	··		

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene.

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6.1.2.	For emergency responders	
Protecti	ve 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 re	elease to the environment. Notify auth	horities if product enters sewers or public waters.
6.3.	Methods and material for contain	inment and cleaning up
For con	tainment	: Stop leak if safe to do so.
Method	s for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other ir	nformation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4.	Reference to other sections	
No odd		
ino add	itional information available	
	Itional information available	e
SECT		e
SECT 7.1.	ION 7: Handling and storage	<ul> <li>Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.</li> </ul>
SECT 7.1. Precaut	ION 7: Handling and storage 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 dust, mist, spray. Wear personal protective
SECT 7.1. Precaut Hygiene	ION 7: Handling and storage Precautions for safe handling tions for safe handling	<ul> <li>Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.</li> <li>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.</li> </ul>
SECT 7.1. Precaut Hygiene 7.2.	ION 7: Handling and storage Precautions for safe handling tions for safe handling e measures	<ul> <li>Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.</li> <li>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.</li> </ul>
SECT 7.1. Precaut Hygiene 7.2. Technic	ION 7: Handling and storage Precautions for safe handling tions for safe handling e measures Conditions for safe storage, incl	<ul> <li>Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.</li> <li>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.</li> </ul>
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SECT 7.1. Precaut Hygiene 7.2. Technic Storage Incomp	ION 7: Handling and storage Precautions for safe handling tions for safe handling e measures Conditions for safe storage, incl cal measures e conditions	<ul> <li>Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.</li> <li>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.</li> <li>Iuding any incompatibilities         <ul> <li>Comply with applicable regulations.</li> <li>Keep container closed when not in use. Keep away from ignition sources. Keep contents under inert gas.</li> </ul> </li> </ul>

#### 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.

#### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical an	d chemical properties
Physical state	: Solid
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	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available

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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	: 219.04 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 bases. 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 case of fire, see Section 5.

### SECTION 11: Toxicological information

11.1	. Inf	formatio	n on te	oxicol	ogica	l effects

#### Acute toxicity

- : Oral: Harmful if swallowed.
- 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 : Not classified exposure) : Not classified Aspiration hazard

SECTI	ON 12: Ecological information
12.1.	Toxicity
No additi	onal information available
12.2.	Persistence and degradability
No additi	onal information available

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No additional information available 12.4. Mobility in soil No additional information available 12.5. Other adverse effects				
12.4.       Mobility in soil         No additional information available         12.5.       Other adverse effects	12.3.	Bioaccumulative potential		
No additional information available 12.5. Other adverse effects	No additi	ional information available		
No additional information available 12.5. Other adverse effects	12.4	Mobility in coil		
12.5. Other adverse effects		,		
	No additi	ional information available		
	12.5.	Other adverse effects		
No additional information available				

#### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

#### Waste treatment methods

Waste disposal recommendations Additional information

: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
  - : Recycle the material as far as possible.

## **SECTION 14: Transport information**

#### **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:

5-Bromo-3-hydrazinyl-2-methoxypyrazine CAS No 1334135-54-4 100%	
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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

#### 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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given         Flammability       0 Minimal Hazard - Materials that will not burn         Physical       0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NO	Full tex	t of H-phrases:	
Skin Irrit. 2       Skin corrosion/irritation Category 2         STOT SE 3       Specific target organ toxicity (single exposure) Category 3         H302       Harmful if swallowed         H315       Causes skin irritation         H319       Causes serious eye irritation         H335       May cause respiratory 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       : 0 - Materials that will not burn.         NFPA reactivity       : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.         HMIS III Rating       : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment given         Flammability       : 0 Minimal Hazard - Materials that will not burn         Physical       : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NO		Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
STOT SE 3       Specific target organ toxicity (single exposure) Category 3         H302       Harmful if swallowed         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       : 0 - Materials that will not burn.         NFPA reactivity       : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.         HMIS III Rating       : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment given         Flammability       : 0 Minimal Hazard - Materials that will not burn         Physical       : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NO		Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
H302       Harmful if swallowed         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       : 0 - Materials that will not burn.         NFPA reactivity       : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.         HMIS III Rating       : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment given         Flammability       : 0 Minimal Hazard - Materials that will not burn         Physical       : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NO		Skin Irrit. 2	Skin corrosion/irritation Category 2
H315       Causes skin irritation         H319       Causes serious eye 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       : 0 - Materials that will not burn.         NFPA reactivity       : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.         HMIS III Rating       : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment given         Flammability       : 0 Minimal Hazard - Materials that will not burn         Physical       : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NO		STOT SE 3	Specific target organ toxicity (single exposure) Category 3
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       : 0 - Materials that will not burn.         NFPA reactivity       : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.         HMIS III Rating       : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment given         Flammability       : 0 Minimal Hazard - Materials that will not burn         Physical       : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NO		H302	Harmful if swallowed
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       : 0 - Materials that will not burn.         NFPA reactivity       : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.         HMIS III Rating       : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment given         Flammability       : 0 Minimal Hazard - Materials that will not burn         Physical       : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NO		H315	Causes skin irritation
NFPA health hazard       : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.         NFPA fire hazard       : 0 - Materials that will not burn.         NFPA reactivity       : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.         HMIS III Rating       : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment given         Flammability       : 0 Minimal Hazard - Materials that will not burn         Physical       : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NO		H319	Causes serious eye irritation
NFPA fire hazard       : 0 - Materials that will not burn.         NFPA reactivity       : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.         HMIS III Rating       : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment given         Flammability       : 0 Minimal Hazard - Materials that will not burn         Physical       : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NO		H335	May cause respiratory irritation
Health       : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment given         Flammability       : 0 Minimal Hazard - Materials that will not burn         Physical       : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NO	NFPA	fire hazard	residual injury even though prompt medical attention was given. : 0 - Materials that will not burn. : 0 - Normally stable, even under fire exposure conditions,
given         Flammability       : 0 Minimal Hazard - Materials that will not burn         Physical       : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NO	HMIS I	II Rating	
Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NO	Health		: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
	Flamm	ability	: 0 Minimal Hazard - Materials that will not burn
react with water, polymerize, decompose, condense, or self-react. Non-Explosives.			: 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.