

Safety Data Sheet 4654BY3

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/21/2019 Version: 1.0

SECTION 1: Identification Identification 1.1. Product form : Substance Substance name 3-Bromo-5-fluoronitrobenzene CAS No 7087-65-2 4654-B-Y3 Product code Formula C6H3BrFNO2 Synonyms 1-Bromo-3-fluoro-5-nitrobenzene Other means of identification : MFCD09955454 Relevant identified uses of the substance or mixture and uses advised against 1.2 : Laboratory chemicals Use of the substance/mixture Manufacture of substances Scientific research and development Details of the supplier of the safety data sheet 1.3. SvnQuest 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 **Emergency telephone number** 1.4. Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) identification 2.1. **Classification of the substance or mixture Classification (GHS-US)** Acute Tox. 4 (Oral) H302 - Harmful if swallowed Acute Tox. 4 (Dermal) H312 - Harmful in contact with skin Acute Tox. 4 (Inhalation:dust,mist) H332 - Harmful if inhaled Skin Irrit. 2 H315 - Causes skin irritation Eve Irrit. 2A H319 - Causes serious eve irritation STOT SE 3 H335 - May cause respiratory irritation 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+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 : P261 - Avoid breathing dust, fumes, mist, sprav, vapors Precautionary statements (GHS-US) P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) 01/22/2019 EN (English US) SDS ID: 4654BY3 Page 1

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	P337+P313 - If eye irrita P362+P364 - Take off co P403+P233 - Store in a P405 - Store locked up	tion occurs: Get medical advice, tion persists: Get medical advice ontaminated clothing and wash it well-ventilated place. Keep conta nts/container to an approved wa	e/attention t before reuse ainer tightly closed
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS U	S)		
Not applicable			
SECTION 3: Composition/information	ation on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifie	er %	Classification (GHS-US)
3-Bromo-5-fluoronitrobenzene (Main constituent)	(CAS No) 7087-65-2	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), 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 measure			
First-aid measures general		you feel unwell, seek medical ad ne affected personnel away from	vice immediately (show the label
First-aid measures after inhalation	: Remove person to fresh		eathing. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap	and water. Get immediate med	lical advice/attention.
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 immediate medical advice/attention.		
First-aid measures after ingestion	mouth out with water. Ge	et immediate medical advice/atte	to an unconscious person. Rinse ention.
4.2. Most important symptoms and o			
Symptoms/injuries	: The most important know 2.2) and/or in section 11.		scribed in the labelling (see section
4.3. Indication of any immediate me	dical attention and special trea	tment needed	
Treat symptomatically.			
SECTION 5: Firefighting measure	es		
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. C appropriate for surround		ter spray. Use extinguishing media
5.2. Special hazards arising from the			
Fire hazard	: Thermal decomposition (Nitrogen oxides.	generates: Carbon oxides. Hydro	ogen bromide. Hydrogen fluoride.
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate		
Protection during firefighting			tion with self contained breathing posure controls/personal protection".
SECTION 6: Accidental release m	neasures		
6.1. Personal precautions, protectiv			
General measures	: Evacuate unnecessary p breathe gas, fumes, vap		ventilation. Do not breathe dust. Do not
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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".		
6.2. Environmental precautions			
Avoid release to the environment. Notify author	ities if product enters sewers or public waters.		
6.3. Methods and material for containm	ient and cleaning up		
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.		
Methods for cleaning up	: Minimize generation of dust. 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			
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, 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 storage, including any incompatibilities			
Technical measures	: Comply with applicable regulations.		
Storage conditions	: Keep container closed when not in use.		
Incompatible materials	: Refer to Section 10 on Incompatible Materials.		

Storage area : Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

Control parameters 8.1.

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 chemical properties		
Physical state	: Solid	
Appearance	: Low melting solid.	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: 27 - 29 °C	
Freezing point	: No data available	
Boiling point	: 65 - 70 °C	
Flash point	: No data available	

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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
Molecular mass	: 219.996 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.	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 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	

Information on toxicological effects 11.1.

Acute toxicity

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

3-Bromo-5-fluoronitrobenzene (7087-65-2)		
ATE US (oral)	500.000 mg/kg body weight	
ATE US (dermal)	1100.000 mg/kg body weight	
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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Aspiratio	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	No additional information available			
12.4.	Mobility in soil			
No addi	tional information available			
12.5.	Other adverse effects			
No addi	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 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-Bromo-5-fluoronitrobenzene CAS No 7087-65-2	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

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SECTION 16: Other information

Full tex	I text of H-phrases:		
	Acute Tox. 4 (Dermal)		Acute toxicity (dermal) Category 4
	Acute Tox. 4 (Inhalation:dust,mist)		Acute toxicity (inhalation:dust,mist) 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
	nealth hazard ïire hazard		 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. 1 - Must be preheated before ignition can occur.
		:	0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS I	II Rating		
Health		:	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Include solids and semi solids having a flash point above 200 F. (Class IIIB)		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)	
		:	: 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.