

Safety Data Sheet 7671BX0 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/09/2020 Version: 1.0

4 Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 5-Bromo-3,4-diaminophenylsulfur pentafluoride
CAS No	: 1159512-25-0
Product code	: 7671-B-X0
Formula	: C6H6BrF5N2S
Synonyms	: 3-Bromo-5-(pentafluorothio)benzene-1,2-diamine; 3-Bromo-5-(pentafluorosulfanyl)benzene- 1,2-diamine
Other means of identification	: MFCD11501036
1.2. Relevant identified uses	of the 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 safety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synqu	uestlabs.com
1.4. Emergency telephone nu	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2. Hozard(c) ident	ification
SECTION 2: Hazard(s) ident	
2.1. Classification of the subs	stance or mixture
Classification (GHS-US)	
Acute Tox. 4 (Dermal) Acute Tox. 4 (Inhalation:dust,mist) Skin Irrit. 2 Eye Dam. 1 Skin Sens. 1B STOT SE 3 Full text of H-phrases: see section 16	H312 - Harmful in contact with skin H332 - Harmful if inhaled H315 - Causes skin irritation H318 - Causes serious eye damage H317 - May cause an allergic skin reaction H335 - May cause respiratory irritation
2.2. Label elements	
GHS-US labeling Hazard pictograms (GHS-US)	GHS05 GHS06 GHS07
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H301 - Toxic if swallowed
	H3012+H332 - Harmful in contact with skin or if inhaled H315 - Causes skin irritation H317 - May cause an allergic skin reaction H318 - Causes serious eye damage H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	<ul> <li>P261 - Avoid breathing dust, mist, spray</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P272 - Contaminated work clothing must not be allowed out of the workplace</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> </ul>

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	P304+P340 - If inhaled: Remove pers P305+P351+P338 - If in eyes: Rinse of lenses, if present and easy to do. Con P310 - Immediately call a POISON CE P321 - Specific treatment (see supple P330 - Rinse mouth P332+P313 - If skin irritation occurs: O P333+P313 - If skin irritation or rash of P362+P364 - Take off contaminated of P363 - Wash contaminated clothing bo P403+P233 - Store in a well-ventilated P405 - Store locked up P501 - Dispose of contents/container	cautiously with water tinue rinsing ENTER or doctor/ phy mental first aid instru- Get medical advice/at occurs: Get medical a clothing and wash it b efore reuse d place. Keep contain	for several minutes. Remove contact /sician ctions on this label) tention dvice/attention efore reuse her tightly closed
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			
Substance type :	Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
5-Bromo-3,4-diaminophenylsulfur pentafluoride (Main constituent)	(CAS No) 1159512-25-0	<= 100	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317 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			
u u u u u u u u u u u u u u u u u u u	In case of accident or if you feel unwe where possible). Move the affected per Remove person to fresh air and keep	ersonnel away from th	ne contaminated area.
	respiration. Get immediate medical ad Wash with plenty of soap and water. F	lvice/attention.	
	medical advice/attention.		<u> </u>
	Immediately flush eyes thoroughly wit present and easy to do. Continue rins	ing. Get immediate m	nedical advice/attention.
First-aid measures after ingestion :	Do NOT induce vomiting. Never give a mouth out with water. Get immediate		
4.2. Most important symptoms and effects,			
	The most important known symptoms 2.2) and/or in section 11.		
Symptoms/injuries after inhalation :	Material is destructive to tissue of the shortness of breath, headache, nause		s and upper respiratory tract. Cough,
4.3. Indication of any immediate medical at	tention and special treatment neede	d	
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
	Alcohol resistant foam. Carbon dioxide appropriate for surrounding fire.	e. Dry powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from the subst	ance or mixture		
	Thermal decomposition generates: Ca oxides. Hydrogen bromide.	arbon oxides. Hydrog	en fluoride. Nitrogen oxides. Sulfur
	EN (English LIS)	SDS ID: 7671E	3¥0 2/7

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

5.3. Advice for firefighters	
Firefighting instructions	: In case of fire: Evacuate area.
Protection during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
SECTION 6: Accidental release me	easures
6.1. Personal precautions, protective	equipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.
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	
	orities if product enters sewers or public waters.
6.3. Methods and material for contain	ment 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 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 fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	<ul> <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>
7.2. Conditions for safe storage, inclu	uding any incompatibilities
Fechnical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Air sensitive. 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/pe	ersonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers
Appropriate engineering controls	should be available in the immediate vicinity of any potential exposure.
Hand protection	should be available in the immediate vicinity of any potential exposure.
Hand protection Eye protection	<ul> <li>should be available in the immediate vicinity of any potential exposure.</li> <li>Protective gloves. 29 CFR 1910.138: Hand Protection.</li> <li>Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.</li> <li>Wear suitable protective clothing.</li> </ul>
Appropriate engineering controls Hand protection Eye protection Skin and body protection Respiratory protection	<ul> <li>should be available in the immediate vicinity of any potential exposure.</li> <li>Protective gloves. 29 CFR 1910.138: Hand Protection.</li> <li>Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.</li> </ul>

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
Physical state	: Solid		
Color	: No data available		
Odor	: No data available		

: Safety shoes. 29 CFR 1910.136: Foot Protection.

Other information

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

5 5 5	
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
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	: 313.086 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

SECTI	ON 10: Stability and reactivity
10.1.	Reactivity
No additi	ional information available
10.2.	Chemical stability
The proc	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No additi	ional information available
10.4.	Conditions to avoid
Keep aw	vay from heat, sparks and flame.
10.5.	Incompatible materials
Strong a	cids. Strong oxidizing agents.
10.6.	Hazardous decomposition products
Linder no	ormal conditions of storage and use bazardous decomposition products should not be produced. Hazardous decomposition products in case of

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. Information on toxicological effects

Acute toxicity	: Oral: Toxic if swallowed. Dermal: Harmful in contact with skin. Inhalation:dust,mist: Harmful if inhaled.
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	<ul><li>Not classified</li><li>May cause respiratory irritation.</li></ul>

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

SECTI	ON 12: Ecological information
12.1.	Toxicity
No addit	ional information available
12.2.	Persistence and degradability
No addit	ional information available
12.3.	Bioaccumulative potential
No addit	ional information available
12.4.	Mobility in soil
No addit	ional 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	: UN2811 Toxic solids, organic, n.o.s., 6.1, III
UN-No.(DOT)	: UN2811
Proper Shipping Name (DOT)	: Toxic solids, organic, n.o.s.
Transport hazard class(es) (DOT)	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Hazard labels (DOT)	: 6.1 - Poison

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols

- : III Minor Danger
- : 213
- : 240
- 240
- : G Identifies PSN requiring a technical name

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT Special Provisions (49 CFR 172.102)	:	IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. T1 - 1.5 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	:	153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	100 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	200 kg
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)	:	2811
Proper Shipping Name (IMDG)	:	TOXIC SOLID, ORGANIC, N.O.S.
Class (IMDG)	:	6.1 - Toxic substances
Packing group (IMDG)	:	III - substances presenting low danger
Air transport		
UN-No. (IATA)	:	2811
Proper Shipping Name (IATA)	:	Toxic solid, organic, n.o.s.
Class (IATA)	:	6.1 - Toxic Substances
Packing group (IATA)	:	III - Minor Danger
<b>SECTION 15: Regulatory information</b>	n	
15.1. US Federal regulations		
All components of this product are listed or exc	clue	ted from listing, on the United States Environmental Protection Agency Toxic

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic

5-Bromo-3,4-diaminophenylsulfur pentafluoride CAS No 1159512-25-0 100%	Substances Control Act (ISCA) Inventory except for:		
	5-Bromo-3,4-diaminophenylsulfur pentafluoride	CAS No 1159512-25-0	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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and 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:

Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4	
Eye Dam. 1	Serious eye damage/eye irritation Category 1	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
Skin Sens. 1B	Skin sensitization Category 1B	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H301	Toxic if swallowed	
H312	Harmful in contact with skin	
H315	Causes skin irritation	
H317	May cause an allergic skin reaction	
H318	Causes serious eye damage	
H332	Harmful if inhaled	
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	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is 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 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.