

Safety Data Sheet 1700U12

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/10/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 3-Bromo-6-fluoro-2-iodobenzyl bromide
CAS No	: 1823345-33-0
Product code	: 1700-U-12
Formula	: C7H4Br2FI
Synonyms	: 1-Bromo-3-(bromomethyl)-4-fluoro-2-iodobenzene
Other means of identification	: MFCD27975438
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 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@synquestlabs.com - www.synquestlab 1.4. Emergency telephone number	
0,1	. (944) 522 4086 (2E Company, Account 10060)
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)	
Skin Corr. 1BH314 - Causes severe skiiEye Dam. 1H318 - Causes serious eyiSTOT SE 3H335 - May cause respiratFull text of H-phrases: see section 16	e damage
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	CHS05 CHS07
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	 P260 - Do not breathe dust, mist, spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower 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

lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/ physician

P321 - Specific treatment (see supplemental first aid instructions on this label) P363 - Wash contaminated clothing 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

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	20,			
2.3. Other hazards Other hazards not contributing to the : classification	Lachr	ymator.		
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/information	on in	aredients		
3.1. Substance		groaterito		
	Mono	-constituent		
			0/	Classification (CUC UC)
Name 3-Bromo-6-fluoro-2-iodobenzyl bromide		Product identifier (CAS No) 1823345-33-0	% <= 100	Classification (GHS-US) Skin Corr. 1B, H314
(Main constituent)		(075 110) 1023343-33-0	L = 100	Eye Dam. 1, H318 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 :		e of accident or if you feel unwell, seek re possible). Move the affected personnel		
First-aid measures after inhalation :		ve person to fresh air and keep comforta ation. Get immediate medical advice/atte		g. If not breathing, give artificial
First-aid measures after skin contact :		with plenty of soap and water. Remove al advice/attention.	contaminated cl	othing and shoes. Get immediate
First-aid measures after eye contact :		diately flush eyes thoroughly with water f nt and easy to do. Continue rinsing. Get		
First-aid measures after ingestion :		DT induce vomiting. Never give anything out with water. Get immediate medical		
4.2. Most important symptoms and effects	, both a	acute and delayed		
Symptoms/injuries :		nost important known symptoms and effe nd/or in section 11.	cts are describe	d in the labelling (see section
Symptoms/injuries after inhalation :		ial is destructive to tissue of the mucuous ness of breath, headache, nausea.	s membranes ar	nd upper respiratory tract. Cough,
4.3. Indication of any immediate medical at	tentio	n and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
000		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2. Special hazards arising from the subst	tance o	or mixture		
Fire hazard :		nal decomposition generates: Carbon ox gen iodide.	des. Hydrogen I	oromide. Hydrogen fluoride.
5.3. Advice for firefighters				
Firefighting instructions :	In cas	e of fire: Evacuate area.		
Protection during firefighting :		gas tight chemically protective clothing in atus. For further information refer to sect		
SECTION 6: Accidental release measu	res			
6.1. Personal precautions, protective equip		and emergency procedures		
		late unnecessary personnel. Ensure ade	quate air ventila	tion. Do not breathe dust.
6.1.1. For non-emergency personnel Emergency procedures :	Only	qualified personnel equipped with suitabl	e protective equ	ipment may intervene.
6.1.2. For emergency responders Protective equipment :		t attempt to take action without suitable o section 8: "Exposure controls/personal		ment. For further information

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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	nent 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 dust, mist, spray. 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, includ	ling 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. Light sensitive.
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SECTION 8: Exposure controls/pers	sonal 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

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Relative vapor density at 20 °C	: No data available
Molecular mass	: 393.82 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 addi	tional 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 av	vay from heat, sparks and flame.
10.5.	Incompatible materials
Strong b	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 informat	SECTION 11: Toxicological information			
11.1. Information on toxicological effects	i de la constante de la constan			
Acute toxicity	: Not classified			
Skin corrosion/irritation	: Causes severe skin burns and eye damage.			
Serious eye damage/irritation	: Causes serious eye damage.			
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
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.

SECT	ON 12: Ecological information
12.1.	Toxicity
No addi	ional information available
12.2.	Persistence and degradability
No addi	ional information available
12.3.	Bioaccumulative potential
No addi	ional information available

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Mobility in soil 12.4.

No additional information available

12.5. Other adverse effects

No additional information available

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 Duals of contents/container in accordance with licensed collector's sorting instructions. Department of Transport and DOT : UN3261 Transport document description : UN3261 UN-No.(DOT) : UN3261 Proper Shipping Name (DOT) : Sectrosive solid, acidic, organic, n.o.s. Tansport hazard class(es) (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136 Hazard labels (DOT) : 213 DOT Packaging Non Bulk (49 CFR 173.xxx) : 240 DOT Special Provisions (49 CFR 172.102) : B - Authorized IBCs: Metal (111, 118, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (2114, 114, 513, 1134, 1341, 314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1314, 1	SECTION 13: Disposal consideration	IS
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 Transport information Department of Transport information UN3261 Corrosive solid, acidic, organic, n.o.s. 8, III UN3261 Corrosive solid, acidic, organic, n.o.s. Proper Shipping Name (DOT) : UN3261 Corrosive solid, acidic, organic, n.o.s. Transport nazard class(es) (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136 Hazard labels (DOT) : 8 - Class 1 - Corrosive material 49 CFR 173.136 DOT Packaging Non Bulk (49 CFR 173.xxx) : 213 DOT Special Provisions (49 CFR 172.102) : III - Minor Danger DOT Special Provisions (49 CFR 172.102) : IB - Authorized IBCs: Metal (114, 118, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rijd plastics (1114, 11142, 2114, 1214, 2114 and 3142); Corroposite (114114, 1114, 214, 1214, 2114, 2144, 214, 21		
SECTION 14: Transport information Department of Transportation (DOT) In accordance with DOT Transport document description : UN3261 Corrosive solid, acidic, organic, n.o.s., 8, III UN-No.(DOT) :: UN3261 Proper Shipping Name (DOT) :: UN3261 Transport hazard class(es) (DOT) :: Corrosive solid, acidic, organic, n.o.s. Hazard labels (DOT) :: 0.13261 Packing group (DOT) :: 0.11 Minor Danger DOT Packaging Non Bulk (49 CFR 173.xxx) :: 240 DOT Special Provisions (49 CFR 172.102) :: 18 - 0.40107264 (111, 1112, 2114, 2114 and 31142); Composite (11142, 1142, 2114, 2114 and 31142); Composite (11142, 1142, 2114, 114, 114, 114, 114, 1	Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
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 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, 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 Symbols	: G - Identifies PSN requiring a technical name
DOT Quantity Limitations Passenger aircraft/rail : 25 kg (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49) : 100 kg CFR 175.75) CFR 175.75) : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.	DOT Special Provisions (49 CFR 172.102)	 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
(49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 100 kg CFR 175.75) DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.	DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Cargo aircraft only (49 : 100 kg CFR 175.75) DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.		: 25 kg
passenger vessel.	DOT Quantity Limitations Cargo aircraft only (49	: 100 kg
Other information : No supplementary information available.	DOT Vessel Stowage Location	
	Other information	: No supplementary information available.
	TDG	

No additional information available

Safety Data Sheet

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

Transport by sea	
UN-No. (IMDG)	: 3261
Proper Shipping Name (IMDG)	: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 3261
Proper Shipping Name (IATA)	: Corrosive solid, acidic, organic, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Minor Danger

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-6-fluoro-2-iodobenzyl bromide CAS No 1823345-33-0 100%

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

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

Full text of H-phrases:

Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
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 NFPA reactivity

- : 0 Materials that will not burn.
- : 0 Normally stable, even under fire exposure conditions, and are not reactive with water.



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

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.