

## 2-Fluoro-5-iodobenzyl bromide

Safety Data Sheet 1700U04

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	: 2-Fluoro-5-iodobenzyl bromide		
CAS No	: 442910-33-0		
Product code	: 1700-U-04		
Formula	: C7H5BrFI		
Synonyms	: 2-(Bromomethyl)-1-fluoro-4-iodobenzene; alpha-Bromo-2-fluoro-5-iodotoluene		
Other means of identification	: MFCD18396956		
1.2. Relevant identified uses of the su	bstance 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 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@synquestlabs.com - www.synquestlabs.com 1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Company - Account 10069)		
2.1.       Classification of the substance or mixture         Classification (GHS-US)         Skin Corr. 1B       H314 - Causes severe skin burns and eye damage         Eye Dam. 1       H318 - Causes serious eye damage         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)	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)	<ul> <li>P260 - Do not breathe dust, mist, spray</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting</li> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact</li> </ul>		

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact 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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2.3. Other hazards				
Other hazards not contributing to the classification :	Lachry	/mator.		
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
<b>SECTION 3: Composition/information</b>	on ing	gredients		
3.1. Substance				
Substance type :	Mono-	constituent		
Name		Product identifier	%	Classification (GHS-US)
2-Fluoro-5-iodobenzyl bromide (Main constituent)		(CAS No) 442910-33-0	<= 100	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Full text of H-phrases: see section 16	I	,		
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 r 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 a advice/attention.	contaminated cl	othing and shoes. Get immediate
First-aid measures after eye contact :	Immeo preser	diately flush eyes thoroughly with water f ht and easy to do. Continue rinsing. Get	or at least 15 m immediate medi	inutes. Remove contact lenses, if cal advice/attention.
First-aid measures after ingestion :		T induce vomiting. Never give anything out with water. Get immediate medical a		
4.2. Most important symptoms and effects	, both a	cute and delayed		
Symptoms/injuries :		ost important known symptoms and effend/or in section 11.	cts are describe	ed in the labelling (see section
Symptoms/injuries after inhalation :		al is destructive to tissue of the mucuous ess of breath, headache, nausea.	s membranes ar	nd upper respiratory tract. Cough,
4.3. Indication of any immediate medical at	ttentior	and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media :		ol resistant foam. Carbon dioxide. Dry po oriate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2. Special hazards arising from the subst	tance o	r mixture		
Fire hazard :		al decomposition generates: Carbon oxi gen iodide.	des. Hydrogen	bromide. 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		
		ate unnecessary personnel. Ensure ade	quate air ventila	tion. Do not breathe dust.
6.1.1. For non-emergency personnel				
	Only c	ualified personnel equipped with suitable	e protective equ	ipment may intervene.
6.1.2. For emergency responders				
Protective equipment :		t attempt to take action without suitable p o section 8: "Exposure controls/personal		ment. For further information

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6.2. Environmental precautions			
Avoid release to the environment. Notify authorities if product enters sewers or public waters.			
	· · ·		
6.3. Methods and material for containment			
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, includin	g 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.		
<b>SECTION 8: Exposure controls/perso</b>	onal 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 and 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	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Vapor pressure	: No data available	
Relative density	: No data available	

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: No data available
: 314.92 g/mol
: 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 away from heat, sparks and flame.			
10.5.	Incompatible materials		
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. Information on toxicolog	jical effects		
Acute toxicity	: Not classified		
Skin corrosion/irritation	Causes severe skin burns and eve damage.		

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	tional information available
12.2.	Persistence and degradability
No addi	tional information available
12.3.	Bioaccumulative potential
No addi	tional information available

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#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

13.1       Waste treatment methods       : Remove to a 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       : Recycle the material as far as possible.         Section 17: Transport document description       : UN3261 Corrosive solid, acidic, organic, n.o.s., 8, III         UN-No. (DOT)       : UN3261         Proper Shipping Name (DOT)       : Corrosive solid, acidic, organic, n.o.s.         Transport document description       : UN3261         Proper Shipping Name (DOT)       : Corrosive solid, acidic, organic, n.o.s.         Transport document description       : UN3261         Proper Shipping Name (DOT)       : Corrosive solid, acidic, organic, n.o.s.         Hazard labels (DOT)       : B - Corrosive         Packing group (DOT)       : III - Minor Danger         DOT Packaging Non Bulk (49 CFR 173.xxx)       : 213         DOT Special Provisions (49 CFR 172.xxx)       : 240         DOT Special Provisions (49 CFR 172.102)       : B8 - Authorized IBCs: Metal (11A, 11B, 11M, 21A, 21B, 21M, 31A, 31B and 31N); Rigid plastics (11H, 11H, 22H, 11H, 21Z, 11A, 21H, 21H, 21H, 21H, 21H, 21H, 21H, 21H	SECTION 13: Disposal consideration	IS
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.         Recycle the material as far as possible.       SECTION 14: Transport Information         Department of Transport Information       : UN3261         Parament of Transport Controls (DOT)       : UN3261         Transport document description       : UN3261         Proper Shipping Name (DOT)       :: Corrosive solid, acidic, organic, n.o.s.         Transport hazard class(e) (DOT)       :: 8 - Corrosive solid, acidic, organic, n.o.s.         Hazard labels (DOT)       :: 8 - Corrosive         DOT Packaging Non Bulk (49 CFR 173.xxx)       :: 213         DOT Special Provisions (49 CFR 173.xxx)       :: 243         DOT Special Provisions (49 CFR 172.x02)       :: Be- Authorized IBCs: Metal (114, 118, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 21H1, 21H1, 21H1, 21H2, 21H, 21H		
Department of Transportation (DOT)       In accordance with DOT         Transport document description       : UN3261         Proper Shipping Name (DOT)       :: Corrosive solid, acidic, organic, n.o.s.         Transport hazard class(es) (DOT)       :: 8 - Class 8 - Corrosive material 49 CFR 173.136         Hazard labels (DOT)       :: 8 - Class 8 - Corrosive         Packing group (DOT)       :: 111 - Minor Danger         DOT Packaging Non Buk (49 CFR 173.xxx)       :: 213         DOT Packaging Non Buk (49 CFR 173.xxx)       :: 240         DOT Special Provisions (49 CFR 173.xxx)       :: 240         DOT Special Provisions (49 CFR 172.102)       :: B - Authorized BCS: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H, 11H2, 21H1, 21	Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
In accordance with DOT::UN3261 Corrosive solid, acidic, organic, n.o.s., 8, IIIUN-No.(DOT)::UN3261Proper Shipping Name (DOT)::Corrosive solid, acidic, organic, n.o.s.Transport hazard class(es) (DOT)::8 - Class 8 - Corrosive material 49 CFR 173.136Hazard labels (DOT)::8 - CorrosivePacking group (DOT)::11 - Minor DangerDOT Packaging Non Bulk (49 CFR 173.xxx)::2 13DOT Packaging Bulk (49 CFR 173.xxx)::2 40DOT Symbols::G - Identifies PSN requiring a technical nameDOT 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, 23H1, and 31H2, 12G); Composite (11H21, 11H2, 21H2, 2	SECTION 14: Transport information	
Proper Shipping Name (DOT): Corrosive solid, acidic, organic, n.o.s.Transport hazard class(es) (DOT): 8 - Class 8 - Corrosive material 49 CFR 173.136Hazard labels (DOT): 8 - Class 8 - CorrosivePacking group (DOT): III - Minor DangerDOT Packaging Bulk (49 CFR 173.xxx): 213DOT Packaging Bulk (49 CFR 173.xxx): 240DOT Special Provisions (49 CFR 172.102): B8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H, 11H2, 21H1, 21H2, 31H1 and 31H2); Corposite (1H27, 1H22, 21H27, 21H22, 31H27 and 31H2); Flexible (13H1, 11H2, 21H1, 11H2, 21H1, 11H2, 21H1, 11H2, 21H2, 31H2 and 31H2); Pistobard (11G; IWooden (11C, 11D and 11F); Flexible (13H1, 11H2, 13H2, 13H3, 13H4, 13H5, 13L1, 13L4, 13M1 or 13M2). IP3 - The portable tank instruction a dispert for and water-resistant incr. T1 - 1.5 178.274(d)(2) Normal	In accordance with DOT	: UN3261 Corrosive solid, acidic, organic, n.o.s., 8, III
Proper Shipping Name (DOT): Corrosive solid, acidic, organic, n.o.s.Transport hazard class(es) (DOT): 8 - Class 8 - Corrosive material 49 CFR 173.136Hazard labels (DOT): 8 - CorrosivePacking group (DOT): III - Minor DangerDOT Packaging Non Bulk (49 CFR 173.xxx): 213DOT Packaging Bulk (49 CFR 173.xxx): 240DOT Special Provisions (49 CFR 172.102): BB - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H, 11H2, 21H1, 21H2, 31H1 and 31H2); Corposite (1H27, 1H22, 21H27, 21H22, 31H27 and 31H2); Flexible (13H1, 11H2, 21H1, 11H2, 21H1, 11H2, 21H1, 11H2, 21H2, 31H2 and 31H2); Pischedrad (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 11H2, 21H2, 31H21 and 31H2); Corposite (1H27, 1H22, 21H27, 21H22, 31H27 and 31H2); Flexible (13H1, 13H2, 13H3, 13L4, 13M1 or 13M2). IP3 - The portable tank instruction a solid mass. Solid substances applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relied devices or bottom outlets are assigned in which case the more stringent tank instruction and special provision for an elevated temperature material must be transported in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.DOT Packaging Exceptions (49 CFR 173.xxx): 154DOT Packaging Exceptions (49 CFR 173.xxx): 25 kg </td <td></td> <td></td>		
Transport hazard class(es) (DOT): 8 - Class 8 - Corrosive material 49 CFR 173.136Hazard labels (DOT): 8 - CorrosivePacking group (DOT): III - Minor DangerDOT Packaging Non Bulk (49 CFR 173.xxx): 213DOT Packaging Bulk (49 CFR 173.xxx): 240DOT Symbols: G - Identifies PSN requiring a technical nameDOT Special Provisions (49 CFR 172.102): B - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H, 11H, 221, 11H, 221, 121, 31J, 13H, 31B, and 31N2); Floxible (13H1, 13H2, 21H21, 13H2, 23H21 and 31H22); Floxible (13H1, 13H2, 23H21 and 31H22); Composite (11H21, 11H22, 21H21, 13H2, 23H21 and 31H22); Floxible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). HP3 - Flexible IBCs must be sift-proof and water-resistant inter-resistant inter-resistan		
Hazard labels (DOT): 8 - CorrosivePacking group (DOT): III - Minor DangerDOT Packaging Non Bulk (49 CFR 173.xxx): 213DOT Packaging Bulk (49 CFR 173.xxx): 240DOT Special Provisions (49 CFR 172.102): IBE - Authorized IBCs: Metal (11A, 11B, 11A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H, 21H, 21H, 21H, 21H, 21H		
Packing group (DOT):III - Minor DangerDOT Packaging Non Bulk (49 CFR 173.xxx):213DOT Packaging Bulk (49 CFR 173.xxx):240DOT Symbols:G - Identifies PSN requiring a technical nameDOT Special Provisions (49 CFR 172.102):B - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11H21, 11H22, 21H21, 21H22, 31H21 and 31H22); Fiberboard (11G); Wooden (11C, 11D and 11F); Fiexible (13H1, 13H2, 13H2, 13H4, 13H4, 13H2, 13L1, 13L2, 13L3, 13L4, 13M (13M)2). IP3 - Fiexible 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 Non Bulk (49 CFR 173.xxx): 213DOT Packaging Bulk (49 CFR 173.xxx): 240DOT Symbols: G - Identifies PSN requiring a technical nameDOT 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 (11H21, 11H22, 21H21, 21H22, 31H21 and 31H22); 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		8
DOT Packaging Bulk (49 CFR 173.xxx): 240DOT Symbols: G - Identifies PSN requiring a technical nameDOT Special Provisions (49 CFR 172.102): BB - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigidplastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11H21, 11H22, 21H21, 21H22, 31H21 and 31H22); 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 liner.T1 - 1.5 178.274(d)(2) Normal	Packing group (DOT)	: III - Minor Danger
DOT Symbols: G - Identifies PSN requiring a technical nameDOT 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, 31H21 and 31H22); Fiberboard (116); 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 iner. T1 - 1.5 178.274(d)(2) Normal	DOT Packaging Non Bulk (49 CFR 173.xxx)	: 213
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 (11H21, 11H22, 21HZ1, 21HZ2, 31H21 and 31H22); 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. T. 1 - 1.5 178.274(d)(2) Normal	DOT Packaging Bulk (49 CFR 173.xxx)	: 240
<ul> <li>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, 13H4, 13H3, 13L4, 13L3, 13L4, 13H3 or 13M1 or 13M</li></ul>	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)       Constrained and the material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.	-	<ul> <li>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).</li> <li>IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.</li> <li>T1 - 1.5 178.274(d)(2) Normal 178.275(d)(2)</li> <li>TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II or T7 for solid substances of packing group II or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction TP3. Solids meeting the definition of an elevated temperature material</li> </ul>
(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
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.		: 100 kg
Other information : No supplementary information available.	DOT Vessel Stowage Location	
	Other information	: No supplementary information available.
	No additional information available	

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## 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
<mark>Air transport</mark> 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:

2-Fluoro-5-iodobenzyl bromide	CAS No 442910-33-0	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:

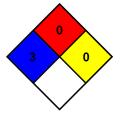
Eye Dam. 1	Serious eye damage/eye irritation Category 1	
Skin Corr. 1B	Skin corrosion/irritation Category 1B	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H314	Causes severe skin burns and eye damage	
H318	Causes serious eye damage	
H335	May cause respiratory irritation	

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.