

4-Bromo-3,5-difluorobenzenesulfonyl chloride Safety Data Sheet 6662F35 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 12/08/2017 Version: 1.0

SECTION 1: Identification 1.1. Identification Product form	
	: Substance
Substance name	: 4-Bromo-3,5-difluorobenzenesulfonyl chloride
CAS No	: 518057-63-1
Product code	: 6662-F-35
Formula	: C6H2BrClF2O2S
Synonyms Other means of identification	: 4-Bromo-3,5-difluorobenzene-1-sulfonyl chloride : MFCD03788548
	ubstance 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 safe	ety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ: T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs	
1.4. Emergency telephone number	· (044) 502 4006 (25 Company Account 10060)
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	on
2.1. Classification of the substance of	
Classification (GHS-US)	
GHS-US labeling	
GHS-US labeling Hazard pictograms (GHS-US)	: GHS05 GHS07
2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	: GHS05 GHS07 : Danger : H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	DangerH314 - Causes severe skin burns and eye damage

4-Bromo-3,5-difluorobenzenesulfonyl chloride Safety Data Sheet

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/informat	tion on in	gredients				
3.1. Substance		-				
Substance type	: Mono	-constituent				
Name		Product identifier	%	Classification (GHS-US)		
4-Bromo-3,5-difluorobenzenesulfonyl chloride (Main constituent)		(CAS No) 518057-63-1	<= 100	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335		
Full text of H-phrases: see section 16			1			
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 possible). Move the affected personne				
First-aid measures after inhalation		ove person to fresh air and keep comfort ation. Get immediate medical advice/att		g. If not breathing, give artificial		
First-aid measures after skin contact		with plenty of soap and water. Remove cal advice/attention.	contaminated c	lothing and shoes. Get immediate		
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		OT induce vomiting. Never give anything n out with water. Get immediate medical				
4.2. Most important symptoms and ef	fects, both a	acute and delayed				
Symptoms/injuries		nost important known symptoms and eff nd/or in section 11.	ects are describ	ed in the labelling (see section		
Symptoms/injuries after inhalation		ial is destructive to tissue of the mucuou ness of breath, headache, nausea.	us membranes a	nd upper respiratory tract. Cough,		
4.3. Indication of any immediate medi	cal attention	n and special treatment needed				
Treat symptomatically.						
SECTION 5: Firefighting measures						
5.1. Extinguishing media						
Suitable extinguishing media		ol resistant foam. Carbon dioxide. Dry p priate for surrounding fire.	owder. Water sp	ray. Use extinguishing media		
5.2. Special hazards arising from the	substance o	or mixture				
Fire hazard		nal decomposition generates: Carbon ox r oxides.	kides. Hydrogen	chloride. Hydrogen fluoride.		
Reactivity		ts with water, generates gases or heat. I se highly explosive/flammable hydrogen		ure to water with some metals to		
5.3. Advice for firefighters						
	: In cas	se of fire: Evacuate area.				
Firefighting instructions	· Woar	gas tight chemically protective clothing				
0 0		atus. For further information refer to sec				
Firefighting instructions Protection during firefighting SECTION 6: Accidental release me	appar easures					
Protection during firefighting SECTION 6: Accidental release me 6.1. Personal precautions, protective	appar easures equipment a	and emergency procedures				
Protection during firefighting SECTION 6: Accidental release me	appar easures equipment a					
Protection during firefighting SECTION 6: Accidental release me 6.1. Personal precautions, protective	appar easures equipment a	and emergency procedures				

Protective equipment

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

6.1.2. For emergency responders

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Environmental precautions 6.2.

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containme	nt 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, includir	ng any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.

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

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Storage area

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	I chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pН	: No data available
Melting point	: 47 - 51 °C
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

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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	: 291.498 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

Reacts with water, generates gases or heat. Reacts on exposure to water with some metals to release highly explosive/flammable hydrogen gas.

10.2. Chemical stability	
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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. Moisture.

10.5. Incompatible materials

Strong oxidizing agents.

Acute toxicity

Hazardous decomposition products 10.6.

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

l 11: Toxi	ON 11	111	1: Tc	oxic	colo	ogio	cal	inf	ori	mat
formation o	Inform	form	matio	on oi	n to	xico	logi	cal	eff	ects

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.

Not classified

SECTION 12: Ecological information 12.1. **Toxicity** No additional information available Persistence and degradability 12.2. No additional information available

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12.3.	Bioaccumulative potential						
No addi	tional information available						
12.4.	12.4. Mobility in soil						
	tional information available						
12.5.	Other adverse effects						
No oddi	tional information available						

No additional information available

13.1. Waste treatment methods Remove to an authorized incinerator equipped with an afferturmer and a flue gas scrubber. Waste treatment methods Dispose of contents/container in accordance with licensed collector's sorting instructions. Recycle the material as far as possible. SECTION 14: Transport information Recycle the material as far as possible. 	SECTION 13: Disposal consideration	S		
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 Poper Shipping Name (DOT) :: UN3261 Transport dacument description :: UN3261 Poper Shipping Name (DOT) :: UN3261 Transport hazard class(es) (DOT) :: 0 Corrosive solid, acidic, organic, n.o.s. Hazard labels (DOT) :: 0 Corrosive material 49 CFR 173.136 Packing group (DOT) :: 0 III - Minor Danger DOT Packaging Non Bulk (49 CFR 173.xxx) :: 240 DOT Special Provisions (49 CFR 172.102) :: B - Authorized IECs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid platics (11H, 11H2, 21H1, 11H1, 21H1, 21H1, 21H1, 21H1, 21H1, 21H1, 21H1, 21H1, 21H1, 31H1, 31H2, 31H2, 13H4, 31H5, 31H4, 31H5, 31H5, 31H4, 31H5, 31H5, 31H5, 31H5, 31H5, 31H5, 31H5, 31H5, 31H5	Waste treatment methods			
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) :: Corrosive solid, acidic, organic, n.o.s. Transport hazard class(es) (DOT) :: B - Class 8 - Corrosive material 49 CFR 173.136 Hazard labels (DOT) :: 8 - Corrosive Packing group (DOT) :: 111 - Minor Danger DOT Packaging Bulk (49 CFR 173.xxx) :: 213 DOT Symbols :: Gentiser SN requiring a technical name DOT Symbols :: Gentiser SN requiring a technical name DOT Symbols :: BB - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigd plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11H2, 11H2, 22, 21H2Z, 11H2,	Additional information	: Recycle the material as far a	s possible.	
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) : Corrosive solid, acidic, organic, n.o.s. Transport hazard class(es) (DOT) : Solcass 8 - Corrosive material 49 CFR 173.136 Hazard labels (DOT) : Solcass 8 - Corrosive material 49 CFR 173.136 Hazard labels (DOT) : Solcass 8 - Corrosive material 49 CFR 173.136 Hazard labels (DOT) : Solcass 8 - Corrosive material 49 CFR 173.136 Hazard labels (DOT) : Solcass 8 - Corrosive material 49 CFR 173.000 Packaging found (49 CFR 173.000) : 213 DOT Packaging Bulk (49 CFR 173.000) : 213 DOT Symbols : Go - Identifies PSN requiring a technical name DDT Special Provisions (49 CFR 172.102) : BB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H1, 21H1, 21H2, 21H1, 21H2, 21H2	SECTION 14: Transport information			
UN-No.(DOT) : UN3281 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 - Corrosive Packing group (DOT) : III - Minor Danger DOT Packaging Non Bulk (49 CFR 173.xxx) : 213 DOT Packaging Non Bulk (49 CFR 173.xxx) : 240 DOT Special Provisions (49 CFR 172.102) : IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (1141, 114, 21H, 21H, 21A, 21A, 21H, 21H, 21H, 21H, 21H, 21H, 21H, 21H	,			
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 - Corrosive Packing group (DOT) : UII - Minor Danger DOT Packaging Non Bulk (49 CFR 173.xxx) : 213 DOT Packaging Bulk (49 CFR 173.xxx) : 240 DOT Special Provisions (49 CFR 172.102) : B8 - Authorized IBCs: Metal (114, 118, 11N, 214, 218, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Corroposite (11H27, 11H22, 21H21, 21H23, 31H2, 13G, 31L4, 13M or 13M2). DOT Special Provisions (49 CFR 172.102) : IB8 - Authorized IBCs: Metal (11A, 118, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H2, 31H1, 13L2, 13L3, 13L4, 13M or 13M2). IP3 - Flexible ICS : IB8 - Authorized IBCs: Metal (11A, 118, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H2, 31H1, 13L2, 13L3, 13L4, 13M or 13M2). IP3 - Flexible ICS : IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H2, 31H1, 13L2, 13L3, 13L4, 13M or 13M2). IP3 - Flexible ICS : IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N2). IP3 - The portable tark instruction assigned for this substance applies for granular and powdered solids and for solids which are filted and discharged at temperatures above their metiting point which aresofted and inscharged at temperatures above their metiting point whi	Transport document description	: UN3261 Corrosive solid, aci	lic, organic, n.o.s., 8, III	
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): IB - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Choposite (11H21, 11H22, 21H21, 31H2, 31H21 and 31H22; Choposite (11H21, 11H22, 21H21, 31H2, 31H21 and 31H22; Choposite (11H21, 11H22, 21H21, 31H2, 31H21 and 31H22; Choposite (11H21, 11H22, 21H21, 31H2, 31H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2), IP3 - Flexible IBCs must be sift-proof and water-resistant for must be fitted with a sift-proof and water-resistant incr. T 1 - 1.5 178, 274(0)(2) Nrmal	UN-No.(DOT)	: UN3261		
Hazard labels (DOT) : 8 - Corrosive Packing group (DOT) :: III - Minor Danger DOT Packaging Non Bulk (49 CFR 173.xxx) :: 213 DOT Spholo :: G - Identifies PSN requiring a technical name DOT Spholo :: G - Identifies PSN requiring a technical name DOT Special Provisions (49 CFR 172.x0x) :: B8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 11H2, 21H1, 21H2, 31H1, and 31H2); Composite (11H21, 11H22, 12H21, 21H21, 21H21, 21H21, 21H21, 21H21, 31H3, 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 - 15 - 178.274(d)(2) Normal				
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):BB - 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, 13H3, 13H2, 13H4, 13H4, 13H4, 13H4, 13H4, 13H, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Fiexible IBCs must be sith-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. T 1 - 1.5 17B.274(d)(2) Normal			ial 49 CFR 173.136	
DOT Packaging Non Bulk (49 CFR 173.xxx) : 213 DOT Packaging Bulk (49 CFR 173.xxx) : 240 DOT Symbols : G - Identifies PSN requiring a technical name 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 31H2); 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 Inter.	Hazard labels (DOT)	: 8 - Corrosive		
DOT Packaging Non Bulk (49 CFR 173.xxx) : 213 DOT Packaging Bulk (49 CFR 173.xxx) : 240 DOT Symbols : G - Identifies PSN requiring a technical name 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, 21H21, 21H22, 31H21 and 31H2); Fiberboard (11G); Wooden (11C, 11D and 11F); Fiexible (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				
DOT 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	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 (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 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 (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31H22); Fiberboard (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 Bulk (49 CFR 173.xxx)	: 240		
 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, 13H4, 13H4, 13H3, 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) : 100 kg DOT Quantity Limitations Cargo aircraft only (49) : 100 kg CFR 175.75) : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.		plastics (11H1, 11H2, 21H1, 21HZ2, 31HZ1 and 31HZ2); 13H2, 13H3, 13H4, 13H5, 1 IP3 - Flexible IBCs must be water-resistant liner. T1 - 1.5 178.274(d)(2) Norm TP33 - The portable tank ins powdered solids and for soli melting point which are cool or offered for transport abov tanks conforming to the prov packing group III or T7 for so stringent requirements for m pressure-relief devices or bo instruction and special provi tank special provision TP3.5 must be transported in acco	21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21 Fiberboard (11G); Wooden (11C, 11D and 11F); Flexibi L1, 13L2, 13L3, 13L4, 13M1 or 13M2). ift-proof and water-resistant or must be fitted with a sift al	HZ1, e (13H1, -proof and and re their ansported portable so of ore ent tank th portable material
 (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. 				
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		
	DOT Vessel Stowage Location		ved "on deck" or "under deck" on a cargo vessel and o	n a
	Other information		n available.	
	12/08/2017	EN (English US)	SDS ID: 6662F35	5/7

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TDG

No additional information available

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

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:

4-Bromo-3,5-difluorobenzenesulfonyl chloride	CAS No 518057-63-1	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

NFPA fire hazard

NFPA reactivity

: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

: 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

HIVIIS 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.