

# 5-Bromo-2-methylbenzenesulfonyl chloride Safety Data Sheet 6762DX6 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 11/18/2015 Version: 1.0

SECTION 1: Identification 1.1. Identification	
Product form	: Substance
Substance name	: 5-Bromo-2-methylbenzenesulfonyl chloride
CAS No	: 69321-56-8
Product code	: 6762-D-X6
Formula	: C7H6BrClO2S
Synonyms	: 4-Bromo-2-(chlorosulfonyl)toluene
Other means of identification	: MFCD06655596
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	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
Skin Sens. 1 H317 - May cause an aller	
Skin Sens. 1 H317 - May cause an aller STOT SE 3 H335 - May cause respirat	rgic skin reaction
Skin Sens. 1       H317 - May cause an aller         STOT SE 3       H335 - May cause respirat         Full text of H-phrases: see section 16         2.2.       Label elements	rgic skin reaction
Skin Sens. 1       H317 - May cause an aller         STOT SE 3       H335 - May cause respirat         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling	rgic skin reaction
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Skin Sens. 1 H317 - May cause an aller STOT SE 3 H335 - May cause respirat Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	rgic skin reaction tory irritation : i = i = i = i = i = i = i = i = i = i =

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	P363 - Wash contaminated cloth P403+P233 - Store in a well-ven P405 - Store locked up P501 - Dispose of contents/conta	tilated place. Keep contai	0.7
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS)	US)		
Not applicable			
<b>SECTION 3: Composition/inform</b>	nation on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
5-Bromo-2-methylbenzenesulfonyl chloride (Main constituent)	(CAS No) 69321-56-8	<= 100	Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335
Full text of H-phrases: see section 16	l	I	
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measur	res		
First-aid measures general	: In case of accident or if you feel where possible). Move the affect		5 (
First-aid measures after inhalation	: Remove person to fresh air and l respiration. Get immediate media		thing. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap and wa medical advice/attention.	ater. Remove contaminate	ed clothing and shoes. Get immediate
First-aid measures after eye contact	: Immediately flush eyes thorough present and easy to do. Continue		5 minutes. Remove contact lenses, if medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never mouth out with water. Get immed		
4.2. Most important symptoms and	l effects, both acute and delayed		
Symptoms/injuries	: The most important known symp 2.2) and/or in section 11.	toms and effects are des	cribed in the labelling (see section
Symptoms/injuries after inhalation	: Material is destructive to tissue o shortness of breath, headache, r		es and upper respiratory tract. Cough,
4.3. Indication of any immediate m	edical attention and special treatment n	eeded	
Treat symptomatically.			
<b>SECTION 5: Firefighting measur</b>	res		
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon d appropriate for surrounding fire.	lioxide. Dry powder. Wate	er spray. Use extinguishing media
5.2. Special hazards arising from tl	he substance or mixture		
Fire hazard	: Thermal decomposition generate Sulfur oxides.	es: Carbon oxides. Hydrog	gen bromide. Hydrogen chloride.
Reactivity	: Reacts with water, generates gas release highly explosive/flammat		posure to water with some metals to
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area.		
Protection during firefighting	: Wear gas tight chemically protec apparatus. For further information		on with self contained breathing osure controls/personal protection".

SECTIO	ON 6: Accidental release meas	sures
6.1.	Personal precautions, protective eq	uipment and emergency procedures
General r	neasures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.

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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 authori	ties if product enters sewers or public waters.
6.3. Methods and material for containm	ent 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, include	ing 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.
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	<ul> <li>In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.</li> </ul>
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical a	nd chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 35 - 35 °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

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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	: 269.54 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**

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.

#### 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 toxicological effects

Acute	toxicity
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: Not classified

Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	<ul> <li>Causes severe skin burns and eye damage.</li> <li>Causes serious eye damage.</li> <li>May cause an allergic skin reaction.</li> <li>Not classified</li> </ul>
Carcinogenicity	: Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	<ul> <li>Not classified</li> <li>May cause respiratory irritation.</li> <li>Not classified</li> </ul>
Specific target organ toxicity (repeated exposure)	
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.

SECTIO	ON 12: Ecological information
12.1.	Toxicity
No additi	ional information available

**SECTION 13: Disposal considerations** 

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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 addit	ional information available

12/08/2016	EN (English US)	SDS ID: 6762DX6	5/7
DOT Vessel Stowage Location	: A - The material may be stowed "c passenger vessel.	n deck" or "under deck" on a cargo vessel and on a	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 100 kg		
(49 CFR 173.27)	. 20 Ng		
DOT Packaging Exceptions (49 CFR 173.XXX) DOT Quantity Limitations Passenger aircraft/rail			
OT Packaging Exceptions (49 CFR 173.xxx)	21HZ2, 31HZ1 and 31HZ2); Fibert 13H2, 13H3, 13H4, 13H5, 13L1, 13 IP3 - Flexible IBCs must be sift-pro- water-resistant liner. T1 - 1.5 178.274(d)(2) Normal TP33 - The portable tank instruction powdered solids and for solids whi melting point which are cooled and or offered for transport above their tanks conforming to the provisions packing group III or T7 for solid sub stringent requirements for minimur pressure-relief devices or bottom co instruction and special provisions s tank special provision TP3. Solids	of and water-resistant or must be fitted with a sift-proof	f and ir orted ole e, ink table
DOT Special Provisions (49 CFR 172.102)		11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1,	
DOT Symbols	: G - Identifies PSN requiring a tech	nical name	
DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)	: 213		
Packing group (DOT) DOT Packaging Non Bulk (49 CEP 173 xxx)	: III - Minor Danger : 213		
	8		
Hazard labels (DOT)	: 8 - Corrosive		
Transport hazard class(es) (DOT)	: 8 - Class 8 - Corrosive material 49		
UN-No.(DOT) Proper Shipping Name (DOT)	: UN3261 : Corrosive solid, acidic, organic, n.o	s	
Department of Transportation (DOT) In accordance with DOT Transport document description	: UN3261 Corrosive solid, acidic, or	janic, n.o.s., 8, III	
SECTION 14: Transport information	· · ·		
Waste disposal recommendations Additional information		cordance with licensed collector's sorting instructions.	
Waste treatment methods	: Remove to an authorized incinerat	or equipped with an afterburner and a flue gas scrubbe	r.

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Other information	: No supplementary information available.
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

# **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:

5-Bromo-2-methylbenzenesulfonyl chloride CAS No 69321-56-8

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
Skin Sens. 1	Skin sensitization Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H335	May cause respiratory irritation

100%

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NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.
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	<ul> <li>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)</li> </ul>
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.