

Safety Data Sheet 1600DX8 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/14/2019 Version: 1.0

Date		1.0			
SECTION 1: Identification					
1.1. Identification					
Product form	: Substance				
Substance name	: 2-Chlorobromobenzene	: 2-Chlorobromobenzene			
CAS No	: 694-80-4	694-80-4			
Product code	: 1600-D-X8				
Formula	: C6H4BrCl				
Synonyms	: 1-Bromo-2-chlorobenzer	e			
Other means of identification	: MFCD00000532				
1.2. Relevant identified uses of the s		advised against			
Use of the substance/mixture	: Laboratory chemicals				
	Manufacture of substand Scientific research and d				
1.3. Details of the supplier of the saf	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@synguestlabs.com - www.synguestlabs					
1.4. Emergency telephone number					
Emergency number	: (844) 523-4086 (3E Con	pany - Account 10069)			
SECTION 2: Hazard(s) identificati 2.1. Classification of the substance					
2.1. Classification of the substance					
Classification (GHS-US)					
Flam. Liq. 4 H227 - Combustible liquid					
Skin Irrit. 2 H315 - Causes skin irritation					
Eye Irrit. 2A H319 - Causes serious eye i					
STOT SE 3 H335 - May cause respirator	y irritation				
Full text of H-phrases: see section 16					
2.2. Label elements					
GHS-US labeling					
Hazard pictograms (GHS-US)	· · · ·				
	•				
	\mathbf{v}				
	GHS07				
Signal word (GHS-US)	: Warning				
Hazard statements (GHS-US)	: H227 - Combustible liqu				
	H315 - Causes skin irrita H319 - Causes serious e				
	H335 - May cause respi				
Precautionary statements (GHS-US)	, ,	neat/sparks/open flames/hot surfaces. No smoking			
recationary statements (Crie CC)		umes, mist, spray, vapors			
	P264 - Wash skin thorou	ghly after handling			
	P271 - Use only outdoor	s or in a well-ventilated area			
		loves/protective clothing/eye protection/face protection	۱		
		Nash with plenty of soap and water Remove person to fresh air and keep comfortable for b	vreathing		
		Remove person to fresh air and keep comfortable for b eyes: Rinse cautiously with water for several minutes.			
		sy to do. Continue rinsing			
	P312 - Call a POISON C	ENTER or doctor/physician if you feel unwell			
		t (see supplemental first aid instructions on this label)			
		tion occurs: Get medical advice/attention ion persists: Get medical advice/attention			
		intaminated clothing and wash it before reuse			
05/14/2010		-	Dogo 1		
05/14/2019	EN (English US)	SDS ID: 1600DX8	Page 1		

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

	P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish P403+P233 - Store in a well-ventilated place. Keep container tightly closed P403+P235 - Store in a well-ventilated place. Keep cool P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant			
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)			
Not applicable				
SECTION 3: Composition/informat	tion on in	gredients		
3.1. Substance				
Substance type	: Mono	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
2-Chlorobromobenzene (Main constituent)		(CAS No) 694-80-4	<= 100	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 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	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.			
First-aid measures after inhalation		ove person to fresh air and kee ration. Get medical advice/atte		thing. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap and water. Get medical advice/attention.			
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 medical advice/attention.			
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.			
4.2. Most important symptoms and ef	fects, both	acute and delayed		
Symptoms/injuries		: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.		
4.3. Indication of any immediate medi	cal attentio	n and special treatment need	ded	
Treat symptomatically.				
SECTION 5: Firefighting measures	\$			
5.1. Extinguishing media				
Suitable extinguishing media		nol resistant foam. Carbon diox opriate for surrounding fire.	ide. Dry powder. Wate	r spray. Use extinguishing media
5.2. Special hazards arising from the	substance	or mixture		
Fire hazard	: Therr	mal decomposition generates:	Carbon oxides. Hydrog	en bromide. Hydrogen chloride.
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		and emergency procedures		
General measures	: Evac	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.		
6.1.1. For non-emergency personnel				
Emergency procedures	: Only	qualified personnel equipped v	vith suitable protective	equipment may intervene.

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

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".
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
6.2. Environmental precautions	
Avoid release to the environment. Notify au	thorities if product enters sewers or public waters.
6.3. Methods and material for conta	inment and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for cleaning up	: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.
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	je
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	: 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, inc	cluding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.
ncompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.
•	·

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

0.0

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. Informati	on on basic physical and ch	emical properties	
Physical state		: Liquid	
Color		: No data available	
Odor		: No data available	
Odor threshold		: No data available	
рН		: No data available	
Melting point		: -13 °C	
Freezing point		: No data available	
Boiling point		: 203 - 205 °C	
Flash point		: 79 °C	
Relative evaporation	n rate (butyl acetate=1)	: No data available	

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

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
Specific gravity / density	:	1.649 g/ml (@ 25 °C)
Molecular mass	:	191.453 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		

9.2. Other information

Refractive index

: 1.5836 (@ 12 °C)

SECTION 10: Stability and reactivity
10.1. Reactivity
No additional information available
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.
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	: Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	 Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified
Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)	Not classifiedMay cause respiratory irritation.Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information				
12.1. Toxicity				
No additional information available				
05/14/2019	EN (English US)	SDS ID: 1600DX8	4/7	

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

12.2.	Persistence and degradability
No addi	tional information available
12.3.	Bioaccumulative potential
No addi	tional information available
12.4.	Mobility in soil
No addi	tional information available
12.5.	Other adverse effects
No addi	tional information available

SECTION 13: Disposal consideration	S
13.1.Waste treatment methodsWaste treatment methodsWaste disposal recommendationsAdditional information	 Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. 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 Transportation (DOT) In accordance with DOT Transport document description	: NA1993 Combustible liquid, n.o.s., 3, III
UN-No.(DOT)	: NA1993
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s.
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T1 - 1.5 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
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	
No established information evaluates	

No additional information available

Air transport

No additional information available

Safety Data Sheet

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

SECTION 15: Regulatory information	
15.1. US Federal regulations	
2-Chlorobromobenzene (694-80-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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

2-Chlorobromobenzene (694-80-4)

Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

National regulations

2-Chlorobromobenzene (694-80-4)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)

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 tex	t of H-phrases:		
	Eye Irrit. 2A		Serious eye damage/eye irritation Category 2A
	Flam. Liq. 4		Flammable liquids Category 4
	Skin Irrit. 2		Skin corrosion/irritation Category 2
	STOT SE 3		Specific target organ toxicity (single exposure) Category 3
	H227		Combustible liquid
	H315		Causes skin irritation
	H319		Causes serious eye irritation
	H335		May cause respiratory irritation
NFPA health hazard		2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.	
NFPA fire hazard		: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.	
NFPA reactivity		: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	
HMIS I	II Rating		
Health		: 2 Moderate Hazard - Temporary or minor injury may occur	
Flammability		 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA) 	
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)		
05/14/20	019	EN (English US)	SDS ID: 1600DX8 6

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

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.