

Safety Data Sheet 3630DX5 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/30/2018 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 5-Bromo-2-chloroaniline
CAS No	: 60811-17-8
Product code	: 3630-D-X5
Formula	: C6H5BrCIN
Other means of identification	: MFCD06796283
1.2. Relevant identified uses of the sub	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 safety	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.c	:om
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	n
2.1. Classification of the substance or	
Classification (GHS-US)	
Acute Tox. 4 (Oral) H302 - Harmful if s Acute Tox. 4 (Dermal) H312 - Harmful in Acute Tox. 3 (Inhalation) H331 - Toxic if inh	contact with skin
Eye Irrit. 2AH319 - Causes seSTOT SE 3H335 - May cause	in irritation
Eye Irrit. 2AH319 - Causes seSTOT SE 3H335 - May causeFull text of H-phrases: see section 16	rin irritation Prious eye irritation
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Eye Irrit. 2A H319 - Causes se STOT SE 3 H335 - May cause Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 in irritation erespiratory irritation : irritation <li: irritation<="" li=""> : irritation <li: irritation<="" li=""> <li: irritation<="" li=""> <li: irritation<="" li=""> : irritation <li: irritation<="" li=""> : irritation <li: irritation<="" li=""> : irritation <li: irritation<="" li=""> <li: irritation<="" li=""> <li: irritation<="" li=""> <li: irritation<="" li=""> : irritation <li: irritation<="" li=""> : irritation <li: irritation<="" li=""> <li: irritation<="" l<="" td=""></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:>

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	 P321 - Specific treatment (see supplemental first aid instructions on this label) P330 - Rinse mouth P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it 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 		
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US) Not applicable			
	on ingradiente		
SECTION 3: Composition/information 3.1. Substance	i on ingrealents		
	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
5-Bromo-2-chloroaniline (Main constituent)	(CAS No) 60811-17-8	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation), H331 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 ur	well seek medical advice	immediately (show the label
, and the second s	where possible). Move the affected	d personnel away from the	contaminated area.
	: Remove person to fresh air and ke respiration. Get immediate medica	advice/attention.	
	: Wash with plenty of soap and wate		
	: Immediately flush eyes thoroughly present and easy to do. Continue I	rinsing. Get immediate me	dical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never gi mouth out with water. Get immedia		
4.2. Most important symptoms and effects			
Symptoms/injuries	: The most important known sympto 2.2) and/or in section 11.	oms and effects are descri	bed in the labelling (see section
4.3. Indication of any immediate medical a Treat symptomatically.	attention and special treatment nee	eded	
SECTION 5: Firefighting measures			
5.1. Extinguishing media Suitable extinguishing media	: Alcohol resistant foam. Carbon dio	oxide. Dry powder. Water s	pray. Use extinguishing media
	appropriate for surrounding fire.		
5.2. Special hazards arising from the subs		A I I I I I I I I I I	
Fire hazard	: Thermal decomposition generates Nitrogen oxides.	: Carbon oxides. Hydrogei	n bromide. Hydrogen chloride.
5.3. Advice for firefighters			
0 0	: In case of fire: Evacuate area.	and a data and the second second	with a different to the state
drotootion during tirotighting	: Wear gas tight chemically protective apparatus. For further information	ve clothing in combination refer to section 8: "Exposu	with self contained breathing ire controls/personal protection".
Protection during firefighting			
SECTION 6: Accidental release measu		·	

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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 author	prities if product enters sewers or public waters.
6.3. Methods and material for contain	ment 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, inclu	ding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources. Air sensitive. Keep contents under inert gas.
Incompatible products	: Oxidizing agents.
Incompatible 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

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 chemical properties	
Physical state	: Solid	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: 48 - 50 °C	
Freezing point	: No data available	

Flash point

: No data available

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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
Relative vapor density at 20 °C	: No data available
Molecular mass	: 206.468 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

No additio	No additional information available		
SECTIO	N 10: Stability and reactivity		
10.1.	Reactivity		
No additio	nal information available		
10.2.	Chemical stability		
The produ	ct is stable at normal handling and storage conditions.		
10.3.	Possibility of hazardous reactions		
No additio	nal information available		
10.4.	Conditions to avoid		
Keep awa	y from heat, sparks and flame.		
10.5.	Incompatible materials		
Strong aci	Strong acids. 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

: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Toxic if inhaled.

5-Bromo-2-chloroaniline (60811-17-8)	
ATE US (oral)	500.000 mg/kg body weight
ATE US (dermal)	1100.000 mg/kg body weight
ATE US (gases)	700.000 ppmV/4h
ATE US (vapors)	3.000 mg/l/4h
ATE US (dust, mist)	0.500 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
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.

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Specific target organ toxicity (repeated exposure)	: Not classified	
chpodulo)		

Aspiration hazard : Not classified

SECT	ION 12: Ecological information			
12.1.	Toxicity			
	itional information available			
12.2.	Persistence and degradability			
	itional information available			
	12.3. Bioaccumulative potential No additional information available			
12.4.	Mobility in soil itional information available			
INO ADD				
12.5.	Other adverse effects			

No additional information available

SECTION 13: Disposal considerations		
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

Department of Transportation (DOT)

In accordance with DOT Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

: UN2811 : Toxic solids, organic, n.o.s.

: UN2811 Toxic solids, organic, n.o.s., 6.1, III

- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132
- : 6.1 Poison

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols

- : III Minor Danger
- : 213
- : 240
- : G Identifies PSN requiring a technical name

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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 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 178.275(d)(2) 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, 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 must be transported in accordance with the applicable requirements of this subchapter. 			
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153			
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 100 kg			
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 200 kg			
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				
UN-No. (IMDG)	: 2811			
Proper Shipping Name (IMDG)	: TOXIC SOLID, ORGANIC, N.O.S.			
Class (IMDG)	: 6.1 - Toxic substances			
Packing group (IMDG)	: III - substances presenting low danger			
Air transport				
UN-No. (IATA)	: 2811			
Proper Shipping Name (IATA)	: Toxic solid, organic, n.o.s.			
Class (IATA)	: 6.1 - Toxic Substances			
Packing group (IATA)	: III - Minor Danger			
SECTION 15: Regulatory information	1			
15.1. US Federal regulations				
All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic				

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic

5-Bromo-2-chloroaniline CAS No 60811-17-8 100%	Substances Control Act (TSCA) inventory exception.		
	5-Bromo-2-chloroaniline	CAS No 60811-17-8	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

5-Bromo-2-chloroaniline (60811-17-8) Listed on the TCSI (Taiwan Chemical Substance Inventory)

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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:

NF

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	Acute Tox. 3 (Inhalation)		Acute toxicity (inhalation) Category 3
	Acute Tox. 4 (Dermal)		Acute toxicity (dermal) Category 4
	Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4
	Eye Irrit. 2A		Serious eye damage/eye irritation Category 2A
	Skin Irrit. 2		Skin corrosion/irritation Category 2
	STOT SE 3		Specific target organ toxicity (single exposure) Category 3
	H302		Harmful if swallowed
	H312		Harmful in contact with skin
	H315		Causes skin irritation
	H319		Causes serious eye irritation
	H331		Toxic if inhaled
	H335		May cause respiratory irritation
₽A	health hazard	: 3 - Short exposure could residual injury even thoug given.	cause serious temporary or h prompt medical attention was
-PA	fire hazard	: 1 - Must be preheated be	fore ignition can occur.
₽A	reactivity	: 0 - Normally stable, even and are not reactive with	under fire exposure conditions,

HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 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)
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.