

Safety Data Sheet 4151901 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/05/2020 Version: 1.0

		~	
SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 2-Bromoethylamine, N-Boo	protected	
CAS No	39684-80-5		
Product code	: 4151-9-01		
Formula	: C7H14BrNO2		
Synonyms	: tert-Butyl (2-bromoethyl)ca	bamate; 2-[(tert-Butoxycarbonyl)amino]ethyl bro	mide
Other means of identification	: MFCD02683428		
	substance or mixture and uses a	viced against	
Use of the substance/mixture		vised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and dev		
1.3. Details of the supplier of the sa	afety data sheet		
SynQuest Laboratories, Inc.			
P.O. Box 309			
Alachua, FL 32615 - United States of Amer T (386) 462-0788 - F (386) 462-7097	rica		
info@synquestlabs.com - www.synquestlal	<u>bs.com</u>		
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Compa	ny - Account 10069)	
SECTION 2: Hazard(s) identifica	tion		
2.1. Classification of the substance	e or mixture		
Classification (GHS-US)			
Acute Tox. 4 (Oral) H302 - Harmful if sv	vallowed		
Skin Irrit. 2 H315 - Causes skin			
Eye Irrit. 2A H319 - Causes serie			
STOT SE 3 H335 - May cause r	espiratory irritation		
Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)			
······································			
	· · · · ·		
	×		
Signal word (CLIC LIC)	GHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H302 - Harmful if swallowe H315 - Causes skin irritatio		
	H319 - Causes skin initiation H319 - Causes serious eye		
	H335 - May cause respirate		
Precautionary statements (GHS-US)	: P261 - Avoid breathing due	t, fumes, mist, spray, vapors	
<u>-</u> , , , ,	P264 - Wash skin thorough	ly after handling	
		smoke when using this product	
	P271 - Use only outdoors on P280 - Wear protective glo	r in a well-ventilated area /es/protective clothing/eye protection/face protec	tion
		Call a POISON CENTER or doctor/ physician if y	
	P302+P352 - If on skin: Wa	sh with plenty of soap and water	
		move person to fresh air and keep comfortable for	
		es: Rinse cautiously with water for several minute	es. Remove contact
	lenses, if present and easy P312 - Call a POISON CEI	to do. Continue rinsing ITER or doctor/physician if you feel unwell	
		see supplemental first aid instructions on this lab	el)
	P330 - Rinse mouth		
	P332+P313 - If skin irritation	n occurs: Get medical advice/attention	
02/05/2020	EN (English US)	SDS ID: 4151901	Page 1

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

	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)			
	tion on it			
SECTION 3: Composition/informa		igreatents		
3.1. Substance	· Mon	o-constituent		
Substance type	. 101011			
Name		Product identifier	%	Classification (GHS-US)
2-Bromoethylamine, N-Boc protected (Main constituent)		(CAS No) 39684-80-5	<= 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16				
.2. Mixture				
lot applicable				
SECTION 4: First aid measures				
.1. Description of first aid measures				
irst-aid measures general		ase of accident or if you feel unwe re possible). Move the affected p		
irst-aid measures after inhalation		nove person to fresh air and keep iration. Get immediate medical a		hing. If not breathing, give artificial
ïrst-aid measures after skin contact		h with plenty of soap and water.		
irst-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.				
irst-aid measures after ingestion		NOT induce vomiting. Never give th out with water. Get immediate		
. Most important symptoms and effects, both acute and delayed nptoms/injuries : The most important known symptoms and effects are described in the labelling (see section				
Symptoms/injuries		most important known symptoms and/or in section 11.	s and effects are desc	ribed in the labelling (see section
I.3. Indication of any immediate med Treat symptomatically.	ical attentio	on and special treatment neede	ed	
SECTION 5: Firefighting measures	S			
.1. Extinguishing media				
Suitable extinguishing media		hol resistant foam. Carbon dioxic opriate for surrounding fire.	de. Dry powder. Water	spray. Use extinguishing media
.2. Special hazards arising from the	substance	or mixture		
ire hazard	: The	rmal decomposition generates: C	arbon oxides. Hydrog	en bromide. Nitrogen oxides.
.3. Advice for firefighters				
irefighting instructions	: In ca	ase of fire: Evacuate area.		
Protection during firefighting		r gas tight chemically protective aratus. For further information ref		n with self contained breathing sure controls/personal protection".
SECTION 6: Accidental release m	easures			
.1. Personal precautions, protective	equipment	t and emergency procedures		
General measures		cuate unnecessary personnel. Er the gas, fumes, vapor or spray.	nsure adequate air ver	ntilation. Do not breathe dust. Do not
5.1.1. For non-emergency personnel	· Only	v qualified personnel equipped wi	th suitable protective of	equinment may intervene
Incryoncy procedures	. Only	quamed personnel equipped wi		oquipment 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".
6.2. Environmental precautions	
Avoid release to the environment. Notify	authorities if product enters sewers or public waters.
6.3. Methods and material for co	ntainment and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for cleaning up	: Minimize generation of dust. 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	
No additional information available	
No additional information available SECTION 7: Handling and sto	rage
No additional information available SECTION 7: Handling and sto	rage
No additional information available SECTION 7: Handling and sto 7.1. Precautions for safe handling Precautions for safe handling	rage Ig : Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, fumes, mist, spray, vapors. Wear personal
No additional information available SECTION 7: Handling and stol 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures	rage Ig : Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or
No additional information available SECTION 7: Handling and stol 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures	 rage Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. 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.
No additional information available SECTION 7: Handling and sto 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage,	 rage In the second state of the second state of
No additional information available SECTION 7: Handling and sto 7.1. Precautions for safe handlin Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, Technical measures	rage ig : Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. : 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. including any incompatibilities : Comply with applicable regulations.
No additional information available SECTION 7: Handling and sto 7.1. Precautions for safe handlin Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, Technical measures Storage conditions	 Tage Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. 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. including any incompatibilities Comply with applicable regulations. Keep container closed when not in use.

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. Information on basic physical an	d chemical properties
Physical state	: Solid
Appearance	: Low melting solid.
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: 30 - 32 °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

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
Molecular mass	: 224.096 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
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
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

Information on toxicological effects 11.1.

Acute toxicity

: Oral: Harmful if swallowed.

2-Bromoethylamine, N-Boc protected (3968 ATE US (oral)	500.000 mg/kg body weight
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.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

Safety Data Sheet

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

SECT	ON 12: Ecological information
12.1.	Toxicity
No addit	tional information available
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 addit	tional information available

SECTION 13: Disposal consideration	ns
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.

Department of Transportation (DOT)

SECTION 14: Transport information

In accordance with DOT Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

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-Bromoethylamine, N-Boc protected	CAS No 39684-80-5	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

2-Bromoethylamine, N-Boc protected (39684-80-5)

Listed on the Japanese ISHL (Industrial Safety and Health Law) 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

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

SECTION 16: Other information

Full text of H-phrases:	Acuto toxicity (oral) Cotogony A
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
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
NFPA health hazard NFPA fire hazard NFPA reactivity	 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. 1 - Must be preheated before ignition can occur. 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	 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.