

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

9211 N. Harborgate Street Portland, OR 97203 U.S.A.

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www.TCIchemicals.com

Product name:

Product code:

Product use: Restrictions on use:

Company:

TCI America

Telephone:

Fax:

e-mail:

TCI AMERICA SAFETY DATA SHEET

sec-Butylamine B0708 For laboratory research purposes. Not for drug or household use. Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: +1-800-423-8616 / +1-503-283-1681 Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-888-520-1075 / +1-503-283-1987 +1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1-503-286-7624

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Acute Toxicity - Oral [Category 3] Acute Toxicity - Inhalation [Category 4] Skin Corrosion/Irritation [Category 1A] Eye Damage/Irritation [Category 1] Specific Target Organ Toxicity (Single Exposure) [Category 2] Flammable Liquids [Category 2] Aquatic Hazard (Acute) [Category 1]
Signal word:	Danger!
Hazard Statement(s):	Highly flammable liquid and vapor Toxic if swallowed Harmful if inhaled Causes severe skin burns and eye damage Very toxic to aquatic life May cause damage to organs: Central Nervous System

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist, vapors or spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. If exposed or concerned: Call a poison center or doctor. Collect spillage. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified:

May be harmful if in contact with skin.

[HNOC]

3. COMPOSITION/INFORMATION C	ON INGREDIENTS		
Substance/mixture:	Substance		
Components:	sec-Butylamine		
Percent:	>99.0%(GC)(T)		
CAS RN:	13952-84-6		
Molecular Weight:	73.14		
Chemical Formula:	C4H11N		
Synonyms:	2-Aminobutane		
4. FIRST-AID MEASURES			
Description of first aid measures			
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a		
Skin contact:	POISON CENTER or doctor/physician. Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.		
_	Immediately call a POISON CENTER or doctor/physician.		
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Immediately call a POISON CENTER or doctor/physician.		
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.		
Symptoms/effects:			
Acute:	Pain. Redness.		
Delayed:	No data available		
Indication of any immediate medical att	ention:		
Not available.			
Notes to physician:			
No data available			
5. FIRE-FIGHTING MEASURES			
Suitable extinguishing media:	Dry chemical, foam, water in large amounts, carbon dioxide.		
Specific hazards arising from the chemical:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.		
Hazardous combustion products:	These products include: Carbon oxides Nitrogen oxides		
Other specific hazards:	Closed containers may explode from heat of a fire.		
Advice for firefighters:	Wear self-contained breathing apparatus if possible.		
6. ACCIDENTAL RELEASE MEASURES			

Personal precautions, protective
equipment and emergency procedures:Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from
and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be
controlled around the leakage area by roping off, etc.Environmental precautions:
Methods and materials for containment
and cleaning up:Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from
controlled around the leakage area by roping off, etc.Prevention of secondary hazards:Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from
and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be
controlled around the leakage area by roping off, etc.Prevention of secondary hazards:Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use
spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE

Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfacesNo smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.				
Conditions for safe storage, including any incompatibilities					
Storage conditions:	Keep container tightly closed. Store in a cool, dark and well-ventilated place.				
	Store under inert gas. Store locked up.				
	Store away from incompatible materials such as oxidizing agents.				
	Air-sensitive				
Packaging material:	Comply with laws.				

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.
Personal protective equipment	
Respiratory protection:	Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Hand protection:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless - Almost colorles: No data available No data available No data available	5		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	No data available 63°C (145°F) No data available 0.73 No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. 2.52 No data available No data available	
Flash point: Flammability(solid, gas):	-9°C (16°F) No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	378°C (712°F) 1.7% 9.8%	
Solubility(ies): [Water] [Other solvents] Miscible:	Miscible Ether, Alcohols, Many orgar	nic solvents		
10. STABILITY AND REACTIVITY				

Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials: Hazardous decomposition products:

No data available Stable under proper conditions. No special reactivity has been reported. Spark, Open flame, Static discharge Oxidizing agents Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

RTECS Number: EO3325000

Acute Toxicity: skn-rbt LD50:2500 mg/kg		orl-rat LD50:147 mg/kg		
Skii-ibt ED30.2300 mg/kg		Un-rat ED50.147 mg/kg		
Skin corrosion/irritation: No data available				
Serious eye damage/irritation: No data available				
Respiratory or skin sensitization: No data available				
Germ cell mutagenicity: No data available				
Carcinogenicity: No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
Reproductive toxicity: No data available				
Target organ(s): May cause damage to organs: Cente	al Nervous System			
12. ECOLOGICAL INFORMATION				
Ecotoxicity: Fish:	No data available			
Crustacea:	No data available			
Algae:	No data available			
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	68 - 109% (NH3) No data available	(by BOD) , 53 - 94% (NO2) (by BOD)	, 88 % (by ⊺	ГОС) , 100 % (by GC)
Log Pow:	0.74			
Soil adsorption (Koc):	No data available			
Henry's Law (PaM ³/mol):	No data available			
13. DISPOSAL CONSIDERATIONS	<u> </u>			
Disposal of product:	Recycle to proces	s if possible. It is the generator's resp	onsibility to	comply with Federal, State and

Disposal of product:Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and
Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent
and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is
intended to provide assistance but does not replace these laws, nor does compliance in accordance
with this section ensure regulatory compliance according to the law. US EPA guidelines for
Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not
be allowed to enter the environment, drains, water ways, or the soil.Disposal of container:Dispose of as unused product. Do not re-use empty containers.
Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

DOT (US) UN number: UN2733	Proper Shipping Name: Amine, flammable, corrosive, n.o.s	Class or Division: 3 Flammable liquid	Subrisk(s): 8 Corrosive material	Packing Group: II
IATA UN number: UN2733	Proper Shipping Name: Amines, flammable, corrosive, n.o.s	Class or Division: 3 Flammable liquid	Subrisk(s): 8 Corrosive material	Packing Group: II
IMDG UN UN2733 numb er:	Proper Shipping Name: Amines, flammable, corrosive, n.o.s	Class or Division: 3 Flammable liquid	Subrisk(s): 8 Corrosive material	Packing Group: II
EmS number:	F-E, S-C			

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regu	lations			
CERCLA Hazardo	ous substance	e and Reportable Quantity:		
SARA 313:		Not Listed		
SARA 302:		Not Listed		
State Regulation	s			
State Right-to-Kr				
Massachuse	tts	Listed		
New Jersey		Listed		
Pennsylvania	a	Listed		
California Propos	sition 65:	Not Listed		
Other Information	n			
NFPA Rating:			HMIS Classification:	:
Health:	3		Health:	3
Flammability:	3		Flammability:	3
Instability:	0		Physical:	0
International Inve	entories			
Canada: DSL	_	On DSL		
EC-No:		237-732-7		

16. OTHER INFORMATION

Revision date: 07/06/2018

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TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.