

Revision number: 1.1 Revision date: 07/06/2018

1. IDENTIFICATION

Product name: Product code:

Product use:

Restrictions on use:

TCI	AMERICA	
SAFE	TY DATA SHEET	

1,1'-(Butane-1,4-diyl)bis[4-aza-1-azoniabicyclo[2.2.2]octane] Dibromide B2754

For laboratory research purposes. Not for drug or household use.

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Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +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:	Not classifiable
Signal word:	None
Hazard Statement(s):	None
Pictogram(s) or Symbol(s):	None
Precautionary Statement(s):	None
Hazards not otherwise classified: [HNOC]	None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components:	Substance 1,1'-(Butane-1,4-diyl)bis[4-aza-1-azoniabicyclo[2.2.2]octane] Dibromide
Percent:	>98.0%(T)
CAS RN:	94630-50-9
Molecular Weight:	440.27
Chemical Formula:	C16H32Br2N4
Synonyms:	1,4-Bis[4-aza-1-azoniabicyclo[2.2.2]octan-1-yl]butane Dibromide

1,1'-(Butane-1,4-diyl)bis[4-aza-1-azoni .2.2]octane] Dibromide	abicyclo[2 TCI AMERICA Page 2 of 5
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. Get medical advice/attention if you feel unwell.
Skin contact:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion:	Get medical advice/attention if you feel unwell. Rinse mouth.
Symptoms/effects:	
Acute:	No data available
Delayed:	No data available
Indication of any immediate medical a Not available. Notes to physician: No data available	Ittention:
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, foam, water spray, 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 Halogenated compounds
Closed containers may explode from heat of a fire.
- Advice for firefighters: Wear self-contained breathing apparatus if possible.

6. ACCIDENTAL RELEASE MEASURES

equipment and emergency procedures: non-inv Environmental precautions: Preven Methods and materials for containment Sweep	rsonal protective equipment. Keep people away from and upwind of spill/leak. Entry to olved personnel should be controlled around the leakage area by roping off, etc. t product from entering drains. dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected al should be promptly disposed of, in accordance with appropriate laws and regulations.
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7. HANDLING AND STORAGE

Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing.
Conditions for safe storage, including a	ny incompatibilities
Storage conditions:	Keep container tightly closed. Store in a cool and dark place.
-	Store under inert gas. Protect from moisture.
	Store away from incompatible materials such as oxidizing agents.
	Hygroscopic
Packaging material:	Comply with laws.

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 as possible so that workers should not be exposed directly. Also install safety shower and eye bath.
Personal protective equipment	
Respiratory protection:	Dust respirator. Follow local and national regulations.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. A face-shield, if the situation requires.
Skin and body protection:	Protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

9. PHYSIC	AL AND CHEMICA	L PROPERT	IES					
Physical sta Form: Colour: Odour: Odor thresh Odour thres	old:	White No d No d	tal - Powder e - Very pale ata available ata available ata available	e yellow e				
Boiling poin	ion temperature: sity:	No data ava No data ava No data ava No data ava No data ava No data ava	ilable ilable ilable ilable	Vapor Dynar	ir pressure: ir density: nic Viscosity: oration rate(Butyl te=1):	1 1 1	No data available No data available. No data available No data available No data available	
Flash point: Flammability	y(solid, gas):	No data ava No data ava		Flamr L	gnition temperature nability or explosive ower: pper:	e limits:	No data available No data available No data available	
Solubility(ie [Water] [Other sol		Solul No d	ble ata available					
10. STABIL	ITY AND REACTIN	/ITY						
Incompatible Hazardous c	of hazardous reaction	Stab ns: No s Oxid ncts: Carb	pecial reactivizing agents	per conditions. <i>v</i> ity has been repo	ted. Nitrogen oxides (NO	x), Hydroge	en bromide]
Acute Toxic No data avail								
Skin corrosi No data avail	on/irritation: lable							
Serious eye No data avail	damage/irritation: able							
Respiratory No data avail	or skin sensitization able	:						
Germ cell m No data avail								
Carcinogeni No data avail	•							
IARC:	No data available		NTP:	No data availabl	e	OSHA:	No data available	
Reproductiv No data avail								

Target organ(s):

No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available No data available
Log Pow: Soil adsorption (Koc): Henry's Law (PaM³/mol):	No data available No data available No data available

13. DISPOSAL CONSIDERATIONS	
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.
Other considerations:	Observe all federal, state and local regulations when disposing of the substance.
14. TRANSPORT INFORMATION	
DOT (US)	Non-hazardous for transportation.
IATA	Non-hazardous for transportation.
IMDG	Non-hazardous for transportation.

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

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US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:

SARA 313:		Not Listed	
SARA 302:		Not Listed	
State Regulations	<u>6</u>		
State Right-to-Kn	ow		
Massachuset	ts	Not Listed	
New Jersey		Not Listed	
Pennsylvania	l	Not Listed	
California Propos	ition 65:	Not Listed	
Other Information	<u>1</u>		
NFPA Rating:			HMIS Classification:
Health:	0		Health:
Flammability:	0		Flammability:
Instability:	0		Physical:

International Inventories

16. OTHER INFORMATION

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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.