

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

#### 1. IDENTIFICATION

Product name: Product code:

Product use: Restrictions on use:

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

# Pyridostigmine Bromide P1339

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

**TCI AMERICA** 

SAFETY DATA SHEET

Emergency telephone number:

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:	Acute Toxicity - Oral [Category 2]
Signal word:	Danger!
Hazard Statement(s):	Fatal if swallowed
Pictogram(s) or Symbol(s):	
Precautionary Statement(s): [Prevention] [Response] [Storage] [Disposal]	Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. If swallowed: Immediately call a poison center or doctor. Rinse mouth. 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: [HNOC]	None.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components: Percent: CAS RN: Molecular Weight: Chemical Formula: Synonyms: Substance Pyridostigmine Bromide >98.0%(HPLC)(T) 101-26-8 261.12 C9H13BrN2O2 3-(Dimethylcarbamoyloxy)-1-methylpyridinium Bromide

Hand protection: Eye protection:

Skin and body protection:

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
Skin contact	advice/attention if you feel unwell. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation
Skin contact:	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.
Ingestion:	Continue rinsing. If eye irritation persists: Get medical advice/attention. Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
Symptoms/offocts:	
Symptoms/effects: Acute:	No data available
Delayed:	No data available
Indication of any immediate medical atte	ention.
Not available.	
Notes to physician:	
No data available	
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
Specific hazards arising from the	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
chemical: Hazardous combustion products:	These products include: Carbon oxides Nitrogen oxides Halogenated compounds
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 MEASU	RES
Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment and cleaning up:	Prevent product from entering drains.
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 closed system if possible. Use a local exhaust if dust or aerosol will be generated.
	Avoid contact with skin, eyes and clothing.
Conditions for safe storage, including a	
Storage conditions:	Keep container tightly closed. Store in a cool and dark place. Store under inert gas. Protect from moisture. Store locked up.
	Store away from incompatible materials such as oxidizing agents.
Declarium material	Hygroscopic
Packaging material:	Comply with laws.
8. EXPOSURE CONTROLS / PERSO	NAL PROTECTION
	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.
Appropriate engineering controls:	
	system or local exhaust. Also install safety shower and eye bath. Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators
Appropriate engineering controls: Personal protective equipment	system or local exhaust. Also install safety shower and eye bath.

Safety goggles. A face-shield, if the situation requires.

Impervious protective clothing. Protective boots, if the situation requires.

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Solid Crystal - Powder White - Almost white No data available No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	154°C (309°F) No data available No data available No data available No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. No data available No data available No data available
Flash point: Flammability(solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	No data available No data available No data available
Solubility(ies): [Water] [Other solvents] Very soluble: Soluble: Insoluble:	Soluble Chloroform Alcohols Ether, Benzene, Acetone		

### 10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical stability:	Stable under proper conditions.
Possibility of hazardous reactions:	No special reactivity has been reported.
Incompatible materials:	Oxidizing agents
Hazardous decomposition products:	Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx), Hydrogen bromide

11. TOXICOLOGICAL INFORMATION

#### RTECS Number: UU5270000

Acute Toxic ipr-rat LD50:2 scu-rat LD50	2699 ug/kg		orl-rat LD50:37500 ug/kg ivn-mus LD50:1500 ug/kg		
<b>Skin corrosi</b> No data avail	on/irritation: lable				
<b>Serious eye</b> No data avail	damage/irritation: able				
Respiratory No data avail	<b>or skin sensitization</b> : able				
Germ cell m No data avail					
<b>Carcinogeni</b> No data avail	-				
IARC:	No data available	NTP:	No data available	OSHA:	No data available
	eproductive toxicity: rl-rat TDLo: 300 mg/kg (6-15D preg) orl-rat TDLo: 280 mg/kg (15-21D preg/21D post)		/21D post)		

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# 12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	No data available
Bioaccumulative potential(BCF): Mobility in soil	No data available
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law (PaM ³/mol):	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 no
Disposal of container:	be allowed to enter the environment, drains, water ways, or the soil. Dispose of as unused product. Do not re-use empty containers.
Disposal of container: Other considerations: 14. TRANSPORT INFORMATION	Observe all federal, state and local regulations when disposing of the substance.

DOT (US) UN number: UN2811	<b>Proper Shipping Name:</b> Toxic solids, organic, n.o.s	<b>Class or Division:</b> 6.1 Toxic material.	Packing Group: 	
<u>IATA</u> UN number: UN2811	<b>Proper Shipping Name:</b> Toxic solid, organic, n.o.s	<b>Class or Division:</b> 6.1 Toxic material.	Packing Group: II	
IMDG UN UN2811 numb er:	<b>Proper Shipping Name:</b> Toxic solid, organic, n.o.s	<b>Class or Division:</b> 6.1 Toxic material.	Packing Group: II	
EmS number:	F-A, S-A			

# 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.

#### **US Federal Regulations**

CFRCI A Hazardo		and Reportable Quantity:	
SARA 313:		Not Listed	
SARA 302:		Not Listed	
State Regulation	<u>S_</u>		
State Right-to-Kr	ow		
Massachuse	tts	Not Listed	
New Jersey		Not Listed	
Pennsylvania	a	Not Listed	
California Propos		Not Listed	
Other Information	n		
NFPA Rating:			HMIS Classification:
Health:	4		Health:
Flammability:	0		Flammability:
Instability:	0		Physical:
International Inve	entories		
EC-No:		202-929-9	

16. OTHER INFORMATION

#### **Revision date:** 07/06/2018

#### Revision number: 1

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.

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