

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

Methyl 1-(tert-Butoxycarbonyl)-3-pyrrolidinecarboxylate M2723

TCI AMERICA

SAFETY DATA SHEET

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: 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

OSH/ WHM	Com: CFR 1910.1200: 15:	
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Signal word:

Hazard Statement(s):

Causes skin irritation Causes serious eye irritation

Warning!

None.

Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A]

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention] [Response]

Wash hands and face thoroughly after handling. Wear protective gloves, eye protection. If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. If in eyes: 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 or attention.

Hazards not otherwise classified: [HNOC]

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	Methyl 1-(tert-Butoxycarbonyl)-3-pyrrolidinecarboxylate
Percent:	>98.0%(GC)
CAS RN:	122684-33-7
Molecular Weight:	229.28
Chemical Formula:	C11H19NO4
Synonyms:	1-(tert-Butoxycarbonyl)-3-pyrrolidinecarboxylic Acid Methyl Ester , 1-Boc-3-pyrrolidinecarboxylic Acid
	Methyl Ester, 1-tert-Butyl 3-Methyl Pyrrolidine-1,3-dicarboxylate, Methyl
	1-Boc-3-pyrrolidinecarboxylate, Pyrrolidine-1,3-dicarboxylic Acid 1-tert-Butyl 3-Methyl Ester

4. FIRST-AID MEASURES

Packaging material:	Comply with laws.		
Conditions for safe storage, including a Storage conditions:	Keep container tightly closed. Store in a cool and dark place. Store under inert gas. Store away from incompatible materials such as oxidizing agents. Air-sensitive		
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Wash hands and face thoroughly after handling. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.		
7. HANDLING AND STORAGE			
Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment and cleaning up:	etc. Prevent product from entering drains.		
5. ACCIDENTAL RELEASE MEASU			
Advice for firefighters:	Wear self-contained breathing apparatus if possible.		
hemical: lazardous combustion products: Dther specific hazards:	These products include: Carbon oxides Nitrogen oxides Closed containers may explode from heat of a fire.		
Specific hazards arising from the	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fun		
Suitable extinguishing media: Jnsuitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide. Solid streams of water		
5. FIRE-FIGHTING MEASURES			
Not available. Notes to physician: No data available			
ndication of any immediate medical atte	ention:		
Acute: Delayed:	No data available No data available		
Symptoms/effects:			
Eye contact: Ingestion:	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. Get medical advice/attention if you feel unwell. Rinse mouth.		
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. skin irritation or rash occurs: Get medical advice/attention.		
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.		
	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and wat skin irritation or rash occurs: Get medical advice/attention.		

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:	Vapor 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

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless - Yellow No data available No data available No data available		
Melting point/freezing point:	No data available	pH:	No data available
Boiling point/range:	105°C /0.03kPa (221°F)	Vapour pressure:	No data available.
Decomposition temperature:	No data available	Vapour density:	No data available
Relative density:	1.08	Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available	, ,	
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Flash point:	No data available	Autoignition temperature:	No data available
Flammability(solid, gas):	No data available	Flammability or explosive limits:	
		Lower:	No data available
		Upper:	No data available
Solubility(ies):			
[Water]	No data available		
[Other solvents]	No data available		
10. STABILITY AND REACT	IVITY		

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

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available

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

No data available

OSHA: No data available

Reproductive toxicity: No data available

Target organ(s):

No data available

NTP:

12. ECOLOGICAL INFORMATION

Ecotoxicity: Fish: No data available No data available Crustacea: Algae: No data available No data available Persistence / degradability: Bioaccumulative potential(BCF): No data available Mobility in soil Log Pow: No data available No data available Soil adsorption (Koc): No data available Henry's Law (PaM 3/mol): 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. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance. Other considerations: 14. TRANSPORT INFORMATION DOT (US) Non-hazardous for transportation. Non-hazardous for transportation. <u>IATA</u> 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 Hazardo	ous substand	e and Reportable Quantity:	
SARA 313:		Not Listed	
SARA 302:		Not Listed	
State Regulation	S		
State Right-to-Kn	now		
Massachuse	tts	Not Listed	
New Jersey		Not Listed	
Pennsylvania	a	Not Listed	
California Propos	sition 65:	Not Listed	
Other Information	n		
NFPA Rating:			HMIS Classification:
Health:	2		Health:
Flammability:	1		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.

TCI AMERICA