

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

1-tert-Butyl N-(tert-Butoxycarbonyl)-L-glutamate B4534

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

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: Percent: CAS RN: Molecular Weight: Chemical Formula: Synonyms:	Substance 1-tert-Butyl N-(tert-Butoxycarbonyl)-L-glutamate >97.0%(HPLC)(T) 24277-39-2 303.36 C14H25NO6 1-tert-Butyl N-Boc-L-glutamate, Boc-Glu-OtBu, N-(tert-Butoxycarbonyl)-L-glutamic Acid 1-tert-Butyl Ester, N-Boc-L-glutamic Acid 1-tert-Butyl Ester
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4.	FIRST-AID MEASURES	

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Description of first aid massures				
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Skin contact:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. 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.			
Eye contact:				
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 atte Not available. Notes to physician:	ention:			
No data available				
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: Other specific hazards:	None 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:	Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc. Prevent product from entering drains.			
Methods and materials for containment and cleaning up:				
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 Storage conditions:	ny incompatibilities Keep container tightly closed. Store in a freezer.			
Packaging material:	Store away from incompatible materials such as oxidizing agents. Heat-sensitive Comply with laws.			
8. EXPOSURE CONTROLS / PERSC	NAL PROTECTION			
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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	Duct receivator, Follow local and actional regulations			
Respiratory protection: Hand protection:	Dust respirator. Follow local and national regulations. Protective gloves.			
Eye protection: Skin and body protection:	Safety glasses. A face-shield, if the situation requires. Protective clothing. Protective boots, if the situation requires.			

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:	113°C (235°F) No data available	pH: Vapour pressure:	No data available No data available.
Decomposition temperature:	No data available	Vapour pressure. Vapour density:	No data available
Relative density: Kinematic viscosity:	No data available No data available No data available	Dynamic Viscosity:	No data available
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Flash point: Flammability(solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limits:	No data available
		Lower:	No data available
		Upper:	No data available
Solubility(ies): [Water]	No data available		
[Other solvents]			
Soluble:	Methanol		
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)

No data available

OSHA:

No data available

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

Reproductive toxicity: No data available

Target organ(s):

No data available

NTP:

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 CONSIDERATION	IS	

Disposal of product: Disposal of container:	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. 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 Hazardo	ous substance and Re	portable Quantity:	
SARA 313:		Not Listed	
SARA 302:		Not Listed	
State Regulations	s		
State Right-to-Kn			
Massachuset	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:	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.