

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

1. IDENTIFICATION

Product name:

Product code:

Product use:

Restrictions on use:

TCI	AMERICA	
SAFE	TY DATA SHEET	

 N^{α} -[(9H-Fluoren-9-ylmethoxy)carbonyl]-O-tert-butyl-L-threonine F0505

For laboratory research purposes. Not for drug or household 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

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: Chomical Formula:	Substance N ^α -[(9H-Fluoren-9-ylmethoxy)carbonyl]-O-tert-butyl-L-threonine >98.0%(T)(HPLC) 71989-35-0 397.47
Chemical Formula:	C₂₃H₂ァNO₅
Synonyms:	Fmoc-Thr(tBu)-OH , №-Fmoc-O-tert-butyl-L-threonine , O-tert-Butyl-№-Fmoc-L-threonine

chemical:

Hazardous combustion products:

Personal precautions, protective

7. HANDLING AND STORAGE

Appropriate engineering controls:

Personal protective equipment

Eye protection:

Respiratory protection: Hand protection:

Skin and body protection:

Precautions for safe handling:

Storage conditions:

Packaging material:

Environmental precautions:

and cleaning up:

6. ACCIDENTAL RELEASE MEASURES

equipment and emergency procedures:

Methods and materials for containment

Conditions for safe storage, including any incompatibilities

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Other specific hazards:

Advice for firefighters:

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 Not available.	attention:	
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.	

These products include: Carbon oxides Nitrogen oxides

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.

material should be promptly disposed of, in accordance with appropriate laws and regulations.

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.

Dust respirator. Follow local and national regulations.

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

Protective clothing. Protective boots, if the situation requires.

Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents.

Avoid contact with skin, eyes and clothing.

Comply with laws.

shower and eye bath.

Protective gloves.

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected

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

Closed containers may explode from heat of a fire.

Wear self-contained breathing apparatus if possible.

Prevent product from entering drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Solid Crystal - Powder White - Slightly pale yellow No data available No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity:	133°C (271°F) No data available No data available No data available No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity:	No data available No data available. No data available 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: Lower:	No data available No data available
		Upper:	No data available
Solubility(ies): [Water] [Other solvents] Soluble:	No data available Ethyl acetate		
10. STABILITY AND REACTI	VITY		
Reactivity: Chemical stability: Possibility of hazardous reactio Incompatible materials: Hazardous decomposition prod	Oxidizing agents		

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

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No data available

OSHA: No data available

Reproductive toxicity: No data available

Target organ(s):

No data available

NTP:

12. ECOLOGICAL INFORMATION

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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	S
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 solv

Disposal of product: Disposal of container: Other considerations:	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. Observe all federal, state and local regulations when disposing of the substance.	
14. TRANSPORT INFORMATION		
<u>DOT (US)</u>	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			
Massachuset	tts	Not Listed	
New Jersey		Not Listed	
Pennsylvania	a	Not Listed	
California Propos	sition 65:	Not Listed	
Other Information	<u>1</u>		
NFPA Rating:			HMIS Classification:
Health:	0		Health:
Flammability:	0		Flammability:
Instability:	0		Physical:
International Inve	entories		
EC-No:		276-261-1	

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.