

## Material Safety Data Sheet

### 1. Identification of the substance

*Product Name:*           **Cbz-L-Tyrosine benzyl ester, 95%**  
*Synonyms:*                Z-L-Tyrosine benzyl ester; (S)-Benzyl 2-(benzyloxycarbonylamino)-3-(4-hydroxyphenyl)propanoate  
*Catalog number:*        AM-2070  
*Supplier:*                 Combi-Blocks, Inc., 7949 Silverton Avenue, Suite 915,  
San Diego, CA 92126, USA. Tel: 858-635-8950

### 2. Composition/information on ingredients.

*Ingredient name:*        Cbz-L-Tyrosine benzyl ester  
*CAS number:*             5513-40-6

### 3. Hazards identification

Harmful by inhalation, in contact with skin and if swallowed.

### 4. First aid measures

*Skin contact:*            Immediately wash skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes. If irritation persists, seek medical attention.  
*Eye contact:*            Immediately flush eyes with running water for at least 15 minutes while keeping eyes open. Seek medical attention.  
*Inhalation:*              Remove to fresh air. In severe cases or if symptoms persist, seek medical attention.  
*Ingestion:*                Wash out mouth with copious amounts of water for at least 15 minutes. Seek medical attention.

### 5. Fire fighting measures

In the event of a fire involving this material, alone or in combination with other materials, use dry powder or carbon dioxide extinguishers. Protective clothing and self-contained breathing apparatus should be worn.

### 6. Accidental release measures

*Personal precautions:*   Wear suitable personal protective equipment which performs satisfactorily and meets local/state/national standards.

Respiratory precaution:    Wear approved mask/respirator  
Hand precaution:            Wear suitable gloves/gauntlets  
Skin protection:            Wear suitable protective clothing  
Eye protection:             Wear suitable eye protection

*Methods for cleaning up:* Mix with sand or similar inert absorbent material, sweep up and keep in a tightly closed container for disposal. See section 12.

*Environmental precautions:* Do not allow material to enter drains or water courses.

### 7. Handling and storage

*Handling:*                This product should be handled only by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals, who should take into account the fire, health and chemical hazard data given on this sheet.  
*Storage:*                 Store in closed vessels.

## 8. Exposure Controls / PPE

*Engineering Controls:* Use only in a chemical fume hood.

*Personal protective equipment:* Wear chemical-resistant gloves, safety goggles.

*General hygiene measures:* Wash thoroughly after handling. Wash contaminated clothing before reuse.

## 9. Physical and chemical properties

*Appearance:* Not specified

*Odor:* No data

*Boiling point:* No data

*Melting point:* No data

*Flash point:* No data

*Density:* No data

*Molecular formula:*  $C_{24}H_{23}NO_5$

*Molecular weight:* 405.4

## 10. Stability and reactivity

*Conditions to avoid:* Heat, flames and sparks.

*Materials to avoid:* Oxidizing agents.

*Possible hazardous combustion products:* Carbon monoxide, nitrogen oxides.

## 11. Toxicological information

No data

## 12. Ecological information

No data

## 13. Disposal consideration

Arrange disposal as special waste, by licensed disposal company, in consultation with local waste disposal authority, in accordance with national and regional regulations.

## 14. Transportation information

Non-hazardous for air and ground transportation.

## 15. Regulatory information

*Indication of Danger:* No data.

*Risk Statement:* No data.

*Safety Statement:* In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection.

## 16. Other information

This MSDS is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use.