# SIGMA-ALDRICH

# **Material Safety Data Sheet**

Version 3.0 Revision Date 04/12/2008 Print Date 09/27/2011

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Z-Tyr(BzI)-OH

Product Number : 96018 Brand : Aldrich

Company : Sigma-Aldrich

3050 Spruce Street SAINT LOUIS MO 63103

USA

Telephone : +1 800-325-5832 Fax : +1 800-325-5052 Emergency Phone # : (314) 776-6555

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Z-O-benzyl-L-tyrosine

CAS-No.	EC-No.	Index-No.	Concentration
N-Cbz-O-benzyl-L-tyrosine			
16677-29-5	-	-	-

#### 3. HAZARDS IDENTIFICATION

## **Emergency Overview**

## **OSHA Hazards**

No known OSHA hazards

#### **HMIS Classification**

Health Hazard: 0 Flammability: 0 Physical hazards: 0

**NFPA Rating** 

Health Hazard: 0 Fire: 0 Reactivity Hazard: 0

### **Potential Health Effects**

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.Skin May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation. **Ingestion** May be harmful if swallowed.

#### 4. FIRST AID MEASURES

#### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration

#### In case of skin contact

Wash off with soap and plenty of water.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

#### 5. FIRE-FIGHTING MEASURES

## Flammable properties

Flash point no data available Ignition temperature no data available

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

## **Personal precautions**

Avoid dust formation.

#### **Environmental precautions**

Do not let product enter drains.

#### Methods for cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

#### Handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Storage

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

#### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## **Hand protection**

For prolonged or repeated contact use protective gloves.

#### Eye protection

Safety glasses

## Hygiene measures

General industrial hygiene practice.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Form powder Colour white

Safety data

рН no data available

Melting point 102 - 112 °C (216 - 234 °F)

**Boiling point** no data available Flash point no data available Ignition no data available

temperature

Lower explosion

limit

no data available

**Upper explosion** 

no data available

limit

Water solubility no data available

#### 10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Strong bases, Strong acids, Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity** 

no data available

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

No component of this product present at levels greater than or equal to 0.1% is IARC:

identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by ACGIH.

No component of this product present at levels greater than or equal to 0.1% is NTP:

identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### **Potential Health Effects**

Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.
Ingestion May be harmful if swallowed.

#### 12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

no data available

**Ecotoxicity effects** 

no data available

Further information on ecology

no data available

#### 13. DISPOSAL CONSIDERATIONS

**Product** 

Observe all federal, state, and local environmental regulations.

Contaminated packaging

Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

**IMDG** 

Not dangerous goods

IATA

Not dangerous goods

## 15. REGULATORY INFORMATION

**OSHA Hazards** 

No known OSHA hazards

**TSCA Status** 

**Not On TSCA Inventory** 

N-Cbz-O-benzyl-L-tyrosine

CAS-No. 16677-29-5

**DSL Status** 

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

CAS-No.

N-Cbz-O-benzyl-L-tyrosine 16677-29-5

**SARA 302 Components** 

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards No SARA Hazards

Massachusetts Right To Know Components No Components Listed

Pennsylvania Right To Know Components

CAS-No. N-Cbz-O-benzyl-L-tyrosine 16677-29-5

**New Jersey Right To Know Components** 

N-Cbz-O-benzyl-L-tyrosine CAS-No. Revision Date 16677-29-5

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

#### 16. OTHER INFORMATION

#### **Further information**

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Revision Date