

# 2,3,4,5-Tetrabromobenzoic Acid 2-Ethylhexyl Ester: sc-391826



The Power to Question

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** 2,3,4,5-Tetrabromobenzoic Acid 2-Ethylhexyl Ester

**Product Number:** sc-391826

**Supplier:** Santa Cruz Biotechnology, Inc.  
2145 Delaware Avenue  
Santa Cruz, CA 95060  
800.457.3801 or 831.457.3800

**Emergency:** ChemWatch  
Within the US & Canada: 877-715-9305  
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

### 2. HAZARDS IDENTIFICATION

**WHMIS Classification (Canada)**

D2B



Toxic Material Causing Other Toxic Effects  
Moderate Skin/Eye/Respiratory Tract Irritant

**Classification of the Substance or Mixture and Label Elements**

**GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)**

Skin Irritation (Category 2)

Serious Eye Irritation (Category 2)

Specific Target Organ Toxicity, Single Exposure; Respiratory Tract Irritation (Category 3)

**EU Classification (According to EU Regulation 67/548/EEC)**

Irritating to eyes, respiratory system and skin.

**EU Risk and Safety Statements (According to EU Regulation 67/548/EEC)**

Hazard Statements Irritant

Hazard Codes Xi

Pictogram



**Risk Codes and Phrases**

R36/37/38 Irritating to eyes, respiratory system and skin.

**Safety Precaution Codes and Phrases**

S23 Do not breathe spray.

S37/39 Wear suitable gloves and eye/face protection.

**GHS Hazards Identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)**

Pictogram



Signal Word Warning

**GHS Hazard Statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

## GHS Precautionary Statements

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302/P352	IF ON SKIN: Wash with plenty of soap and water
P305/P351/P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

**Formula:** C<sub>15</sub>H<sub>18</sub>Br<sub>4</sub>O<sub>2</sub>  
**Chemical Weight:** 549.92  
**CAS #:** 183658-27-7

## 4. FIRST AID MEASURES

### General Advice

If medical attention is required, show this safety data sheet to the doctor.

### If Inhaled

If inhaled, move casualty to fresh air. If not breathing, give artificial respiration and consult a physician.

### In Case of Skin Contact

Wash affected area with soap and water. Consult a physician if any exposure symptoms are observed.

### In Case of Eye Contact

Immediately rinse eyes with plenty of water for at least 15 minutes. Consult a physician.

### If Swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting unless advised to do so by a physician or Poison Control Center. Seek medical attention.

### Most Important Symptoms and Effects, Both Acute and Delayed

No data available

### Indication of any Immediate Medical Attention and Special Treatment Needed

No data available

## 5. FIREFIGHTING MEASURES

### Special Hazards Arising from the Substance or Mixture

Carbon oxides, Hydrogen bromide

### Advice for Firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Use recommended personal protective equipment (see Section 8). Prevent the formation of dusts and mists. Adequate ventilation must be provided to ensure dusts or mists are not inhaled.

### Environmental Precautions

Material should not be allowed to enter the environment. Prevent further spillage or discharge into drains, if safe to do so.

### Methods and Materials for Containment and Cleaning Up

Contain the spill and then collect using non-combustible absorbent material (such as clay, diatomaceous earth, vermiculite or other appropriate material). Place material in a suitable, sealable container and then dispose according to local/national regulations and guidance (see Section 13).

For protective equipment, refer to Section 8. For disposal, see Section 13.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid contact with skin and eyes. Ventilation and proper handling are to be used to prevent the formation of dusts and mists. Normal measures for preventative fire protection. No smoking, eating or drinking around this material. Wash hands after use.

### Conditions for Safe Storage, Including any Incompatibilities

Ensure container is kept securely closed before and after use. Keep in a well ventilated area and do not store with strong oxidizers or other incompatible materials (see Section 10). Store at 4° C. Light sensitive.

### Specific End Uses

For scientific research and development only. Not for use in humans or animals.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Contains no components with established occupational exposure limits.

### Appropriate Engineering Controls

A laboratory fumehood or other appropriate form of local exhaust ventilation should be used to avoid exposure.

### Personal Protective Equipment

All recommendations below are advisory in nature and a risk assessment should be performed by the employer/end user prior to use of this product. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

### Eye/Face Protection

Safety glasses or safety goggles. All equipment should have been tested and approved under appropriate standards, such as NIOSH (US), CSA (Canada), or EN 166 (EU).

### Skin Protection

Gloves should be used when handling this material. Gloves are to be inspected prior to use. Contaminated gloves are to be removed using proper glove removal technique so that the outer surface of the glove does not contact bare skin. Dispose of contaminated gloves after use in compliance with good laboratory practices and local requirements. Gloves used for incidental exposures (splash protection) should be designated as "low chemical resistant" or "waterproof" by EU standard EN 374. Unrated gloves are not recommended.

### Body Protection

Fire resistant (Nomex) lab coat or coveralls.

### Respiratory Protection

Recommended respirators are NIOSH-approved N95 or CEN-approved FFP2 particulate respirators. These are to be only used as a backup to local exhaust ventilation or other engineering controls. If the respirator is the only means of protection, a full-face supplied air respirator must be used.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid	Odor	No data available
Odor Threshold	No data available	pH	No data available
Melting Point/Freezing Point	No data available	Boiling Point/Boiling Range	No data available
Flash point	No data available	Evaporation Rate	No data available
Flammability (Solid/Gas)	No data available	Upper/Lower Explosive Limits	No data available
Vapor Pressure	No data available	Vapor Density	No data available
Relative Density	No data available	Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available	Viscosity	No data available
Explosive Properties	No data available	Oxidizing Properties	No data available
Solubility	Chloroform, DMSO, Methanol	Partition Coefficient: n-octanol/water	No data available

## 10. STABILITY AND REACTIVITY

### Chemical Reactivity

No data available

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

No data available

### Conditions to Avoid

No data available

### Incompatible Materials

Strong oxidizing materials.

## Hazardous Decomposition Products

No data available

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

No data available

### Skin Corrosion/Irritation

Moderate skin/eye/respiratory tract irritant

### Serious Eye Damage/Irritation

No data available

### Respiratory or Skin Sensitization

No data available

### Germ Cell Mutagenicity

No data available

### Carcinogenicity

No data available

### Reproductive Toxicity/Teratogenicity

No data available

### Single Target Organ Toxicity - Single Exposure

Moderate respiratory tract irritant

### Single Target Organ Toxicity - Repeated Exposure

No data available

### Aspiration Hazard

no data available

### Potential Health Effects and Routes of Exposure

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin irritation.
<b>Eye</b>	Causes eye irritation.
<b>Ingestion</b>	May be harmful if swallowed.

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated.

### Additional Information

**RTECS:** not listed

## 12. ECOLOGICAL INFORMATION

### Toxicity

no data available

### Bioaccumulative potential

no data available

### PBT and vPvB assessment

no data available

### Persistence and degradability

no data available

### Mobility in soil

no data available

### Other adverse effects

no data available

## 13. DISPOSAL CONSIDERATIONS

### Product

Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding the disposal and destruction of this material are followed.

### Contaminated Packaging

Dispose of as above.

### Other Considerations

Product is not to be disposed of in sanitary sewers, storm sewers, or landfills.

## 14. TRANSPORT INFORMATION

### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

## **15. REGULATORY INFORMATION**

This safety data sheet complies with the requirements of WHMIS (Canada), OSHA 1910.1200 (US), and EU Regulation EC No. 1907/2006 (European Union).

### **Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**

#### **Canada-DSL/NDSL Status**

This product or a component of the product is registered on the Canadian DSL/NDSL.

#### **United States-TSCA Status**

This product is not listed on the US EPA TSCA.

#### **European Union-ECHA Status**

This product is not registered with the EU ECHA.

#### **Chemical Safety Assessment**

No data available

## **16. OTHER INFORMATION**

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

03/26/2014