

# Safety Data Sheet - Version 10.0

Preparation Date 10/3/2010

Latest Revision Date (If Revised)

SDS Expiry Date 6/8/2018

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

Chemical Name Ethylenebistetrabromophthalimide

Catalogue # E917300

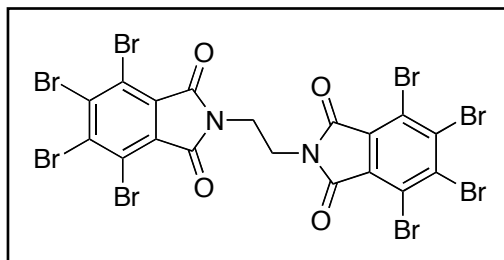
### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Uses To be used only for scientific research and development. Not for use in humans or animals.

### 1.3 Details of the Supplier of the Safety Data Sheet

Company Dongguan Baoxu Chemical Technology Ltd  
Caijing Business Bldg Dongguan CN 523071

Telephone Tel +86 0769 22821082  
FAX F +86 0769 22821083  
Email info@additivesforpolymer.com



### 1.4 Emergency Telephone Number

Emergency# 1(213) 632-9361 between 0800-1700 (GMT-8)

## 2. HAZARDS IDENTIFICATION

WHMIS Symbols (Canada)

### WHMIS Classification (Canada)

D2B Toxic Material Causing Other Toxic Effects  
Moderate Skin/Eye/Respiratory Tract Irritant



### 2.1/2.2 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



#### Risk Codes and Phrases

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

#### Safety Precaution Codes and Phrases

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

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

Signal Word Warning



#### GHS Hazard Statements

H315 Causes skin irritation.  
H319 Causes serious eye irritation.

**GHS Precautionary Statements**

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

**2.3 Unclassified Hazards/Hazards Not Otherwise Classified**

No data available

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

**Molecular Formula:** C<sub>18</sub>H<sub>4</sub>Br<sub>8</sub>N<sub>2</sub>O<sub>4</sub>

**Molecular Weight:** 951.47

**CAS Registry #:** 32588-76-4

**EC#:** 251-118-6

**Synonyms**

1,2-Bis(tetrabromophthalimido) Ethane; Ethylene Bistetrabromo Phthalimide (BT-93);  
2,2'-(1,2-Ethanediy)bis(4,5,6,7-tetrabromo-1h-isoindole-3(2h)-dione);  
2,2'-(1,2-Ethanediy)bis[4,5,6,7-tetrabromo-1H-Isoindole-1, 3(2H)-dione]; BT 93;  
BT 93D; 2,2'-Ethylenebis(4,5,6,7-tetrabromoisoindoline-1,3-dione);

**3.2 Mixtures**

Not a mixture

**4. FIRST AID MEASURES****4.1 Description of 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.

**4.2 Most Important Symptoms and Effects, Both Acute and Delayed**

No data available

**4.3 Indication of any Immediate Medical Attention and Special Treatment Needed**

No data available

**5. FIREFIGHTING MEASURES****5.1 Extinguishing Media****Suitable Extinguishing Media**

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

**5.2 Special Hazards Arising from the Substance or Mixture**

Carbon oxides, Nitrogen oxides, Hydrogen fluoride

**5.3 Advice for Firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**5.4 Further Information**

No data available

**6. ACCIDENTAL RELEASE MEASURES**

### **6.1 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.

### **6.2 Environmental Precautions**

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

### **6.3 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**

### **7.1 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.

### **7.2 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 2-8°C.

### **7.3 Specific End Uses**

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

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1 Control Parameters**

Contains no components with established occupational exposure levels.

### **8.2 Exposure Controls**

#### **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.

Suggested gloves: AnsellPro nitrile gloves style 92-500 or 92-600, 5 mil thickness.

Penetration time has not been determined.

Gloves used for prolonged direct exposure (immersion) should be designated "chemical resistant" as per EN 734 with the resistance codes corresponding to the anticipated use of the material.

Suggested gloves: AnsellPro Viton/Butyl gloves style 38-612, 4/8 mil thickness.

Penetration time has not been determined.

These recommendations may not apply if the material is mixed with any other chemical, or dissolved into a solution. A risk assessment must be performed to ensure the gloves will still offer acceptable protection.

#### **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

### 9.1 Information on Basic Physical and Chemical Properties

#### A) Appearance

Solid

#### C) Odour Threshold

No data available

#### E) Melting Point/Freezing Point

No data available

#### G) Flash point

No data available

#### I) Flammability (Solid/Gas)

No data available

#### K) Vapour Pressure

No data available

#### M) Relative Density

No data available

#### O) Partition Coefficient: n-octanol/water

No data available

#### Q) Decomposition Temperature

No data available

#### S) Explosive Properties

No data available

#### B) Odour

No data available

#### D) pH

No data available

#### F) Initial Boiling Point/Boiling Range

No data available

#### H) Evaporation Rate

No data available

#### J) Upper/Lower Flammability/Explosive Limits

No data available

#### L) Vapour Density

No data available

#### N) Solubility

No data available

#### P) Auto-Ignition Temperature

No data available

#### R) Viscosity

No data available

#### T) Oxidizing Properties

No data available

### 9.1 Other Information

no data available

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available

### 10.2 Chemical Stability

Stable under recommended storage conditions.

### 10.3 Possibility of Hazardous Reactions

May be prone to polymerization.

### 10.4 Conditions to Avoid

No data available

### 10.5 Incompatible Materials

Strong oxidizing agents.

### 10.6 Hazardous Decomposition Products

No data available

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects

#### A) Acute Toxicity

LD50 (oral - rat) >7500 mg/kg

LD50 (dermal - rat) >2000 mg/kg

#### B) Skin Corrosion/Irritation

Moderate skin/eye/respiratory tract irritant.

#### C) Serious Eye Damage/Irritation

No data available

#### D) Respiratory or Skin Sensitization

No data available

#### E) Germ Cell Mutagenicity

No data available

**F) Carcinogenicity**

No data available

**G) Reproductive Toxicity/Teratogenicity**

No data available

**H) Single Target Organ Toxicity - Single Exposure**

Moderate respiratory tract irritation.

**I) Single Target Organ Toxicity - Repeated Exposure**

No data available

**J) Aspiration Hazard**

No data available

**K) Potential Health Effects and Routes of Exposure**

**Inhalation**

May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion**

May be harmful if swallowed.

**Skin**

May be harmful if absorbed through skin. Causes skin irritation.

**Eyes**

Causes eye irritation.

**L) Signs and Symptoms of Exposure**

No data available

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

**M) Additional Information**

RTECS:NR3398507

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

No data available

**12.2 Persistence and Degradability**

No data available

**12.3 Bioaccumulative Potential**

No data available

**12.4 Mobility in Soil**

No data available

**12.5 Results of PBT and vPvB Assessment**

No data available

**12.6 Other Adverse Effects**

No data available

**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste Treatment Methods**

**A) 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.

**B) Contaminated Packaging**

Dispose of as above.

**C) Other Considerations**

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

**14. TRANSPORT INFORMATION**

**14.1 UN Number**

DOT (US): N/A

IATA: N/A

IMDG: N/A

ADR/RID: N/A

**14.2 UN Proper Shipping Name**

DOT (US)/IATA:

Not dangerous goods

IMDG/ARD/RID:

Not dangerous goods

**14.3 Transport Hazard Class(es)**

DOT (US): N/A IATA: N/A IMDG: N/A ADR/RID: N/A

**14.4 Packing Group**

DOT (US): N/A IATA: N/A IMDG: N/A ADR/RID: N/A

**14.5 Environmental Hazards**

DOT (US): None IATA: None IMDG: None ADR/RID: None

**14.6 Special Precautions for User**

None

**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).

**15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture****A) Canada**

**DSL/NDSL Status:** This product or a component of this product is registered on the Canadian DSL/NDSL.

**B) United States**

**TSCA Status:** This product or a component is listed on the US EPA TSCA.

**C) European Union**

**ECHA Status:** This product is not registered with the EU ECHA.

**15.2 Chemical Safety Assessment**

No data available

**16. OTHER INFORMATION****16.1 Revision History**

Original Publication Date: 6/10/2013

**16.2 List of Abbreviations**

LD50	Median lethal dose of a substance required to kill 50% of a test population.
LC50	Medial lethal concentration of a substance required to kill 50% of a test population.
LDLo	Lowest known lethal dose
TDLo	Lowest known toxic dose
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances

**16.3 Further Information**