

# MATERIAL SAFETY DATA SHEET

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<b>Product name</b>	<b>DBDPE</b>	
<b>Product id</b>	9311	
<b>Revision date</b>	02/11/2011	<b>Revision: 1</b>

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## 1. Identification of the substance & the company

<b>Chemical name</b>	Decabromodiphenyl ethane
<b>Chemical formula</b>	C <sub>14</sub> H <sub>4</sub> Br <sub>10</sub>
<b>Chemical family</b>	Brominated aromatic hydrocarbon
<b>Molecular weight</b>	972
<b>Type of product and use</b>	Flame retardant

### Supplier

Dongguan Baoxu Chemical Technology Ltd

Caijing Business Bldg Dongguan CN 523071

**Emergency Telephone** +1(213) 632-9361 between 0800-1700 (GMT-8)

## 2. Hazards identification

### Emergency overview

*From data comparisons to similar compounds, the Environmental Protection Agency has concluded that this substance may cause cancer as a result of significant chronic dermal and inhalation exposures to workers.  
Based on comparison to similar compounds, the Environmental Protection Agency has concluded that this compound may be toxic to aquatic organisms.*

## 3. Composition / information on ingredients

Components	CAS No.	Weight %
Decabromodiphenyl ethane	84852-53-9	100

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## 4. First-aid measures

**Eye contact** Holding the eyelids apart, flush eyes promptly with copious flowing water for at least 20 minutes. Get medical attention immediately.

**Skin contact** Wash skin thoroughly with mild soap and plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

**Inhalation** In case of dust inhalation or breathing fumes released from heated material, remove person to fresh air. Keep him quiet and warm. Apply artificial respiration if necessary and get medical attention immediately. Keep him quiet and warm. Apply artificial respiration if necessary and get medical attention immediately.

**Ingestion** If swallowed, wash mouth thoroughly with plenty of water. Get medical attention immediately.  
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NOTE: Never give an unconscious person anything to drink.  
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**Notes to the physician** Treat symptomatically and supportively.

## 5. Fire - fighting measures

**Suitable extinguishing media** Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical powder or appropriate foam.

**Fire fighting procedure** In closed areas, provide fire-fighters with self-contained breathing apparatus in positive pressure mode.

**Unusual fire and explosion hazards** When heated to decomposition, may release poisonous and corrosive fumes of Carbon Dioxide, Carbon Monoxide, Bromine and Hydrogen Bromide.

## 6. Accidental release measures

**Personal precautions** Avoid dust formation.  
Wear protective clothing specified for normal operations (see section 8).

**Methods for cleaning up** Sweep up, place in a bag and hold for waste disposal or possible re-use  
Ventilate area.

**Environmental precautions** Prevent product from entering drains, ditches and rivers.

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## 7. Handling and storage

**Handling** Keep containers tightly closed. Avoid bodily contact.

**Storage** No special storage required.

## 8. Exposure controls / personal protection

### Exposure Limits :

Components	ACGIH-TLV Data	OSHA (PEL) Data
Decabromodiphenyl ethane 84852-53-9	Not determined	Not determined

**Ventilation requirements** Mechanical exhaust required.

### Personal protective equipment:

- **Respiratory protection** When using this compound and exposure through inhalation is likely, wear an OSHA approved Category 21C air-purifying respirator equipped with a full facepiece and high efficiency particulate filters or a Category 21C powered air purifying respirator
- **Hand protection** Rubber gloves
- **Eye protection** Chemical safety goggles
- **Skin and body protection** Body covering clothes and boots

**Hygiene measures** Safety shower and eye bath should be provided. Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking.

## 9. Physical and chemical properties

**Appearance** Off-white powder  
**Odour** None  
**Boiling point/range** Not applicable  
**Melting point/range** 345°C  
**Flash point** Not applicable  
**Flammable/Explosion limits** Not available  
**Vapour pressure** <0.0001Pa (20°C)  
**Solubility:**

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## 9. Physical and chemical properties

- Solubility in water 0.72µg/l at 25°C  
Specific gravity 3.25  
Partition coefficient (n-octanol/water) Log Kow - 3.55  
Particle size Mass Median Aerodynamic Diameter (MMAD) of 5 µm

## 10. Stability and reactivity

Stability Stable under normal conditions  
Materials to avoid Strong oxidizing agents. Strong acids. strong bases  
Conditions to avoid Heating above 320 °C  
Hazardous decomposition products CO, CO<sub>2</sub>, HBr & Br<sub>2</sub>  
Hazardous polymerization Will not occur

## 11. Toxicological information

Acute toxicity:  
- Rat oral LD<sub>50</sub> > 5000 mg/kg  
- Rabbit dermal LD<sub>50</sub> > 2000 mg/kg  
- Eye irritation (rabbit) Not irritant  
- Dermal irritation (rabbit) Not irritant  
Dermal sensitization Not a sensitizer  
Sub-chronic toxicity:  
- NOAEL Sub-chronic toxicity:  
1000 mg/kg/day (13 weeks oral, rat)  
Mutagenicity Not mutagenic by the Ames Test  
Did not induce chromosome aberrations in CHL cells when tested up to 5000 ug/mL in the presence or absence of S9 activation.  
Carcinogenicity Not included in NTP 12th Report on Carcinogens  
Not classified by IARC  
Developmental toxicity Decabromodiphenyl ethane did not induce developmental effects in rats at doses up to 1250 mg/kg/d administered prenatally.

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## 12. Ecological information

<b>Aquatic toxicity :</b>	
- 96 Hour-LC50, Fish	>110 mg/L
- 96 Hour- IC50, Algae	>110 mg/L
<b>Biodegradation</b>	Not readily biodegradable
<b>Bioaccumulative potential</b>	Not bioaccumulative

## 13. Disposal considerations

<b>Waste disposal</b>	Do not release this compound into U.S. waters. Observe all federal, state and local environmental regulations when disposing of this material.
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## 14. Transportation information

<b>DOT</b>	Not regulated
<b>IMDG</b>	Not regulated
<b>ICAO/IATA</b>	Not regulated

## 15. Regulatory information

<b>USA</b>	Reported in the EPA TSCA Inventory. Subject to reporting under SNUR (Significant New Use Rule), section 40 CFR 721.536
<b>EU</b>	Reported in EINECS
<b>Japan (CSCL regulation)</b>	ENCS no. (4)-1735 ISHL no. 7-(4)-841
<b>New Zealand Inventory</b>	Listed in NZIoC

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<b>China inventory</b>	Listed in IECSC
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<b>Korea</b>	Listed in the Korea Existing Chemicals Inventory (KECI) 97-3-898
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## 16. Other information

**Product is not subject to classification according to GHS. No label elements required.**

### **Health, Safety & Environment Policy**

We will strive to ensure that our operations and products meet the needs of the present global community without compromising the ability of future generations to meet their needs

We accept that the success of our business is dependent on the supply of products and services that will benefit society whilst ensuring human safety and protection of the environment and natural resources

Within the framework of our commitment to the Responsible Care program, we will provide a healthy and safe work environment for employees and will responsibly manage our products at all stages of their life cycle in order to protect human health and the environment whilst maintaining high production standards of operation

### TO MEET THIS COMMITMENT WE WILL:

Comply with or exceed applicable national and international regulatory requirements and other requirements to which we subscribe

Communicate openly and actively encourage dialogue with employees, customers and community concerning our products and operations

Implement documented management systems consistent with and for promotion of the Responsible Care ethics

Develop and supply products that can be manufactured, transported, used and disposed of safely whilst best meeting the needs of our customers

Regularly assess, continually improve and responsibly manage health, safety and environmental risks associated with products and processes throughout their life-cycles

Share knowledge and expertise with others and seek to learn from and incorporate improved practices into our own operations

Educate and train employees, contractors and customers to improve their HSE performance

Communicate up-to-date information to enable our workers, customers and other interested parties to handle our products in a safe and environmentally responsible manner

Endeavor to work with customers, suppliers, distributors and contractors to foster the safe use, transport and disposal of our chemicals

Support Product Stewardship programs in cooperation with customers, distributors and transporters

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