



MATERIAL SAFETY DATA SHEET

Product name DBDPE
Brand JADEWIN
Revision date 02/11/2017 **Revision: 1**

1. Identification of the substance & the company

Chemical name DECABROMODIPHENYLETHAN
Chemical formula C₁₄H₄Br₁₀
Chemical family Brominated aromatic hydrocarbon
Molecular weight 971.20
Type of product and use Flame retardant
Supplier QINGDAO JADE NEW MATERIAL TECHNOLOGY CO.,LTD.
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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 %
Decabromodiphenylethan	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.

NOTE: Never give an unconscious person anything to drink.

Notes to the physician Treat symptomatically and supportively.

5. Fire - fighting measures

Suitable extinguishing media Water spray, carbon dioxide (CO₂), 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
Decabromodiphenylethan 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 White powder
Odour None
Boiling point/range Not applicable
Melting point/range 345°C MIN
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, CO₂, HBr & Br₂
Hazardous polymerization Will not occur

11. Toxicological information

Acute toxicity:
- Rat oral LD₅₀ > 5000 mg/kg
- Rabbit dermal LD₅₀ > 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

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

13. Disposal considerations

Waste disposal	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

DOT	Not regulated
IMDG	Not regulated
ICAO/IATA	Not regulated

15. Regulatory information

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



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China inventory Listed in IECSC

Korea Listed in the Korea Existing Chemicals Inventory (KECI) 97-3-898

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