



MATERIAL SAFETY DATA SHEET

Product name BDDP
Brand JADEWIN
Revision date 30/08/2017
Supersedes 29/03/2016
Revision: 5

1. Identification of the substance & the company

Chemical name 2,2-BIS[4-(2,3-DIBROMOPROPOXY)- 3,5-DIBROMOPHENYL]PROPANE
Synonym(s) SR-720, TBBA-bis(2,3-dibromopropyl ether), TBBPA-DBPE
Chemical formula C₂₁H₂₀Br₈O₂
Chemical family Halogenated bisphenol derivative
Molecular weight 944
Type of product and use A flame retardant used in polypropylene, HIPS (high impact polystyrene).
Supplier QINGDAO JADE NEW MATERIAL TECHNOLOGY CO.,LTD.
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2. Hazards identification

Emergency overview *White crystalline powder which is not hazardous*

Potential Health Effects:
- **Eye Contact** May cause mild irritation to the eyes
- **Skin contact** Not irritant

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

3. Composition / information on ingredients

Components	CAS No.	Weight %
Tetrabromobisphenol A,Bis (2,3-dibromopropyl ether)	21850-44-2	93



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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	Remove contaminated clothing. Wash skin thoroughly with mild soap and plenty of water for at least 15 minutes. Wash clothing before re-use. 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.
Ingestion	If swallowed, wash mouth thoroughly with plenty of water and give water to drink. Get medical attention immediately. ***** NOTE: Never give an unconscious person anything to drink. *****
Notes to the physician	Material with low toxicity. No specific antidote. Treat symptomatically and supportively. In case of ingestion induce vomiting in alert patient.

5. Fire - fighting measures

Suitable extinguishing media	Use extinguishing media appropriate to surrounding fire conditions.
Fire fighting procedure	In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode Cool containers with water spray.
Unusual fire and explosion hazards	Dust may form an explosive mixture with air. [Kst = 77 bar.m.s(-1)] When heated to decomposition, may release poisonous fumes of HBr.

6. Accidental release measures

Personal precautions	Wear respirator, chemical safety goggles, rubber gloves and boots
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Methods for cleaning up Sweep up, place in a suitable container and hold for waste disposal.
Avoid raising dust.
Ventilate area and wash spill site after material pickup is complete.

7. Handling and storage

Handling Avoid bodily contact.
Keep containers tightly closed.

Storage Store in a dry, cool, well-ventilated area

8. Exposure controls / personal protection

Exposure Limits :

Components	ACGIH-TLV Data	OSHA (PEL) Data
Tetrabromobisphenol A,Bis (2,3-dibromopropyl ether) 21850-44-2	Not determined	Not determined

Manufacturer's recommendation 5 mg/m³

Ventilation requirements Ventilation must be sufficient to maintain atmospheric concentration below recommended exposure limit.

Personal protective equipment:

- **Respiratory protection** Dust respirator
- **Hand protection** Rubber gloves
- **Eye protection** Chemical safety goggles
- **Skin and body protection** Body covering clothes and boots

Hygiene measures Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking.



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9. Physical and chemical properties

Appearance	White powder
Boiling point/range	Not available
Melting point/range	100°C MIN
Flash point	None
Flammable/Explosion limits	Not available
Auto-ignition temperature	740°C
Vapour pressure	Not applicable under standard conditions
Evaporation rate (ether=1)	Not available
Vapor density	Not available
Solubility:	
- Solubility in water	0.144 µg/l (20°C)
Specific gravity	2.3
Decomposition temperature	240°C MIN
Partition coefficient (n-octanol/water)	Log Pow - 7.2 (estimated)

10. Stability and reactivity

Stability	Stable under normal conditions.
Materials to avoid	None
Conditions to avoid	Heating above decomposition temperature
Hazardous decomposition products	HBr
Hazardous polymerization	Will not occur

11. Toxicological information

Acute toxicity:	
- Rat oral LD50	>2000 mg/kg
- Mouse oral LD50	>20,000 mg/kg
- Eye irritation (rabbit)	Minimal irritant
- Dermal irritation (rabbit)	Not irritant
Dermal sensitization	Not a sensitizer
Chronic toxicity	Not available
Mutagenicity	Mutagenic by the Ames Test (internal study) Not mutagenic by the Ames Test (NTP study) Not mutagenic in the mouse lymphoma L5178Y test system. Negative in the micronucleus study (NTP study in mice)



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Carcinogenicity Not classified by IARC
Not included in NTP 11th Report on Carcinogens

12. Ecological information

Information on ecological effects

The product was analysed for polybrominated p-Dibenzodioxins and Dibenzofurans contamination.

The results show that no polybrominated Dibenzodioxins and Dibenzofurans higher than the limits of quantitation according to the Toxic Substance Control Act (TSCA) 40/CFR 766.27 are present.

Also the limits of the german ordinance (Chemikalien-Verbotsverordnung) for polybrominated Dibenzodioxins and Dibenzofurans are fulfilled.

Environmental fate

The adsorption-coefficient log Koc is >>5.63 (OECD 121)

Aquatic toxicity :

- 96 Hour-LC50, Fish

>100 mg/l nominal concentration WAF (Rainbow trout)

> 500 mg/l (BCF<100) in Carp

- 48 Hour-EC50, Daphnia magna

>100 mg/l nominal concentration WAF

- 72 Hour-EC50, Freshwater algae

> 100 mg/l nominal concentration WAF

Invertebrate toxicity

- NOEC

>= 810 mg/kg dry sediment (Chironomus riparius, 28 days)

>=1837mg/kg dry sediment (Hyaiella azteca for survival and weight, 28 days).

NOEC=642 mg/kg dry sediment (length of survivors)

Biodegradation

Not readily biodegradable

Bioaccumulative potential

No bioaccumulation was detected in earthworms (Eisenia fetida, 21 days)

Reproduction

The No Observed Effect Concentration (NOEC) for reproduction in Eisenia fetida is 512 mg/kg soil after exposure of 28 days

13. Disposal considerations

Waste disposal

Observe all federal, state and local environmental regulations when disposing of this material.



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14. Transportation information

DOT	Not regulated
IMO	Not regulated
ICAO/IATA	Not regulated

15. Regulatory information

USA	Reported in the EPA TSCA Inventory.
Canada	Listed in NDSL
EC No.	244-617-5
Japan	ENCS no. (4)-212, (4)-214, (4)-218 ISHL no. (4)-212, (4)-214, (4)-218
Australia	Listed in AICS
New Zealand Inventory	Listed in NZIoC
China inventory	Listed
Korea	Listed in ECL (KE-23970)
Philippines	Listed in PICCS

16. Other information

This data sheet contains changes from the previous version in section(s)
2, 11, 15

Note:

All sections reformatted in accordance with REACH Annex II revision



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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