

Tetrabromo bisphenol A(PBBA)

Company Information

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Product Identification

【Product Name】

Tetrabromobisphenol A

【Synonyms】

2,2-bis(3,5-Dibromo-4-hydroxyphenyl)propane

2,2-bis(4-Hydroxy-3,5-dibromophenyl)propane

Bromdian

FG 2000

Fire guard 2000

Firemaster bp4a

【CAS】

[79-94-7](#)

【Formula】

C₁₅H₁₂Br₄O₂

【Molecular Weight】

543.87

【EINECS】

201-236-9

【RTECS】

SM0894500

【RTECS Class】

Reproductive Effector; Primary Irritant

【Beilstein/Gmelin】

1889048

【Beilstein Reference】

3-06-00-05462

Physical and Chemical Properties

【Appearance】

White powder. A monomer for flame-retardant epoxy, polyester and polycarbonate resin s.

【Solubility in water】

Insoluble

【Melting Point】

136 - 137

【Boiling Point】

418

【Vapor Pressure】

1E-7 (25 C)

【Density】

2.158 g/cm³ (20 C)

【pKa/pKb】

6.33 (pKa)

【Partition Coefficient】

7.29

【Heat Of Vaporization】

69.7 kJ/mol

[Usage]

Flame retardant.

First Aid Measures

[Ingestion]

If the exposed person is convulsing or unconscious, you should not attempt first aid. Transport immediately to a hospital emergency room or poison control center. If the victim is conscious, administer large volumes of liquid then immediately induce vomiting. Transport at once to a medical facility.

[Inhalation]

Move patient to fresh air. Monitor for respiratory distress. If cough or difficulty breathing develops, evaluate for respiratory tract irritation, bronchitis, or pneumonitis. Administer oxygen and assist ventilation as required. Treat bronchospasm with beta2 agonist and corticosteroid aerosols.

[Skin]

You should remove all contaminated clothing and flood skin with water. Wash all affected skin areas thoroughly with soap and water and seek immediate medical attention.

[Eyes]

Check for contact lenses and remove them at once if present. You should then immediately flush eyes with water from any source for 15 minutes. Do not use oil or ointment in eyes. Arrange immediate transportation to a medical facility.

Handling and Storage

[Storage]

Keep in a cool, dry, dark location in a tightly sealed container or cylinder. Keep away from incompatible materials, ignition sources and untrained individuals. Secure and label area. Protect containers/cylinders from physical damage.

[Handling]

All chemicals should be considered hazardous. Avoid direct physical contact. Use appropriate, approved safety equipment. Untrained individuals should not handle this chemical or its container. Handling should occur in a chemical fume hood.

Exposure Controls/Personal Protection

【Personal Protection】

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Where chemical resistant gloves. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

【Respirators】

Use NIOSH/MSHA approved respirator appropriate for exposure of concern.

【Exposure Effects】

The toxicological properties of this material have not been investigated.

Fire Fighting Measures

【Flash Point】

206

【Fire Fighting】

You should extinguish fires involving this chemical with a dry chemical, foam, carbon dioxide or halon extinguisher.

Accidental Release Measures

【Small spills/leaks】

If you spill this chemical, dampen the solid spill material with toluene, then transfer the dampened material to a suitable container. Use absorbent paper dampened with toluene to pick up any remaining material. Your contaminated clothing and the absorbent paper should be sealed in a vapor-tight plastic bag for eventual disposal. Solvent-wash all contaminated surfaces with toluene followed by washing with a strong soap and water solution. Do not reenter the contaminated area until the Safety Officer (or other responsible person) has verified that the area has been properly cleaned.

Stability and Reactivity

【Stability】

No data.

【Combustion Products】

When tetrabromobisphenol a was pyrolyzed in open quartz tubes for 10 min, brominated

ed dibenzo p dioxins and dibenzofurans were generated at 700 C and increased at 800 C; at 900 C a decrease in levels of these combustion products was found.

Hazards Identification

[Hazards]

This compound is nonflammable.