



MATERIAL SAFETY DATA SHEET

Section 1 - Product and Company Information

Product detail

Product Name: Tetrabromobisphenol A

Synonyms: 3,3',5,5'-Tetrabromobisphenol A; 4,4'-Isopropylidenebis(2,6-dibromophenol); TBBPA

Molecular Formula: $C_{15}H_{12}Br_4O_2$

Manufacturer/Supplier

Lonwin Industry Group Limited.

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Section 2 - Composition/Information on Ingredients

Product Name: Tetrabromobisphenol A, 97%

CAS No.: 79-94-7

EINECS/ELINCS: 201-236-9

Hazard Symbols: Xi

Section 3 - Hazards Identification

Emergency overview

Irritating to eyes, respiratory system and skin.

HMIS rating

Health: 1

Flammability: 0

Reactivity: 0

NFPA rating

Health: 1

Flammability: 0

Reactivity: 0

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation exposure

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Dermal exposure

In case of contact, immediately wash skin with soap and copious amounts of water. Call a physician.

Eye exposure

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures**Flash point**

N/A

Autoignition temp

N/A

Flammability

N/A

Extinguishing media

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s): Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures**Procedure(s) of personal precaution(s)**

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

Methods for cleaning up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage**Handling**

User Exposure: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage

Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls / Personal Protection**Engineering controls**

Safety shower and eye bath required. Mechanical exhaust required.

Personal protective equipment

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows

air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

General hygiene measures

Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Physical State: Solid

Color: White

Form: crystalline powder

Molecular Weight: 543.87

Molecular Formula: $C_{15}H_{12}Br_4O_2$

pH: N/A

Boiling Point: 316°C

Freezing/Melting Point: 181-182°C

Flash Point: N/A

Decomposition Temperature: N/A

Autoignition Temperature: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Saturated Vapor: N/A

Density: 2.18g/ml

Bulk Density: N/A

Odor Threshold: N/A

Volatile: N/A

Evaporation Rate: N/A

Viscosity: N/A

Surface Tension: N/A

Partition Coefficient: N/A

Explosion Limits: Lower: N/A

Flammability: N/A

Refractive Index: N/A

Optical Rotation: N/A

Solubility: N/A

N/A = not available

Section 10 - Stability and Reactivity

Stability

Stable: Stable.

Conditions to Avoid: Incompatible materials, exposure to moist air or water.

Materials to Avoid: Strong oxidizing agents.

Hazardous decomposition products

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, hydrogen bromide.

Hazardous polymerization

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information**Route of exposure**

Skin Contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes eye irritation.

Inhalation: May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

Signs and symptoms of exposure

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

Toxicity data

Rabbit, eye: 100 mg Severe

Chronic exposure - carcinogen

Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations**Appropriate method of disposal of substance or preparation**

Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information**DOT**

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information**EU additional classification**

Symbol of Danger: Xi

Indication of Danger: Irritant.

R: 36/37/38

Risk Statements: Irritating to eyes, respiratory system and skin.

S: 26-36

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

US classification and label text

Indication of Danger: Irritant.

Risk Statements: Irritating to eyes, respiratory system and skin.

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection.

US regulatory information

SARA listed: Yes

NOTES: This product is subject to SARA section 313 reporting requirements.

TSCA inventory item: Yes

Canada regulatory information

WHMIS classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

Section 16 - Other Information

Warranty

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall **Lonwin Industry Group Limited.** be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if **Lonwin Industry Group Limited.** has been advise the possibility of such damages.