Tetrabromophthalic anhydride(TBPA)

Company Information

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Product Identification

【Product Name】

Tetrabromophthalic anhydride

【Synonyms】

4,5,6,7-Tetrabromo-1,3-isobenzofurandione
4,5,6,7-Tetrabromo-2-benzofuran-1,3-dione
Bromphthal

【CAS】

632-79-1

【Formula】

C8Br4O3

【Molecular Weight】

463.72

【EINECS】

211-185-4

【RTECS】

TI3350000

【RTECS Class】

Mutagen; Primary Irritant

【Beilstein/Gmelin】

18908

【Beilstein Reference】

5-17-11-00265

Physical and Chemical Properties

【Appearance】

Pale yellow crystalline solid.

【Solubility in water】

Insoluble

【Melting Point】

271 - 274

【Boiling Point】

477

【Vapor Pressure】

0.11 at 180 C

【Density】

2.93 g/cm3

【Partition Coefficient】

4.75

【Usage】

Flame retardant for plastics, paper, and textiles.

First Aid Measures

【Ingestion】

Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and dri nk 2-4 cupfuls of milk or water.

【Inhalation】

Remove from exposure to fresh air immediately. If not breathing, give artificial respirati on. If breathing is difficult, give oxygen. Get medical aid.

【Skin】

Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes whil e removing contaminated clothing and shoes. Wash clothing before reuse.

【Eyes】

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Handling and Storage

【Storage】

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

【Handling】

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid cont act with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and in halation. Do not allow contact with water. Keep from contact with moist air and steam.

Hazards Identification

【Inhalation】

Causes respiratory tract irritation. The toxicological properties of this substance have n ot been fully investigated.

【Skin】

Causes skin irritation.

【Eyes】

Causes eye irritation.

【Ingestion】

May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicologic al properties of this substance have not been fully investigated.

【EC Risk Phrase】

R 36/37/38

【EC Safety Phrase】

S 26 36

Exposure Controls/Personal Protection

【Personal Protection】

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Stan dard EN166. Skin: Wear appropriate protective gloves to prevent skin exposure. Clothi ng: Wear appropriate protective clothing to prevent skin exposure.

【Respirators】

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88. 2 requirements or European Standard EN 149 must be followed whenever workplace c onditions warrant a respirator's use.

【Exposure Effects】

The toxological properties of this substance have not been fully investigated.

Fire Fighting Measures

【Fire Fighting】

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approve d or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Extinguishing media: Use agent most appropriate to extinguish fire. Do NOT get water inside containers. In cas e of fire use water spray, dry chemical, carbon dioxide, or appropriate foam.

【Fire Potential】

This material is probably combustible.

Accidental Release Measures

【Small spills/leaks】

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, using the appropriate protective equipment. Avoid generating dusty conditions. Provide ventilation. Do not get water inside containers.

Stability and Reactivity

【Disposal Code】

4

【Incompatibilities】

Moisture, strong acids, strong bases, strong oxidizing agents.

【Stability】

Stable at room temperature in closed containers under normal storage and handling conditions.

【Decomposition】

Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, bromine fumes, bromine.

Transport Information

【HS Code】

2917 39 11