



Wuhan Xinru Chemical Industry Co., Ltd

Add: Room 2805, North Fuxinhuiyu, Changqing Road, Wuhan, China 430015

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MATERIAL SAFETY DATA SHEET

Product Identification

【Product Name】 p-bromophenylamine

【Synonyms】

4-Bromobenzenamine

p-Bromophenylamine

【CAS】 106-40-1

【Formula】 C₆H₆BrN

【Molecular Weight】 172.03

【EINECS】 203-393-9

【RTECS】 BW9280000

【RTECS Class】 Mutagen

【Merck】 13,1388

【Beilstein/Gmelin】 742031

【Beilstein Reference】 4-12-00-01497

【EC Class】 toxic, dangerous for the environment

Physical and Chemical Properties

【Appearance】 Colorless rhombic crystals, sweet odor.

【Solubility in water】 Insoluble

【Melting Point】 62 - 64

【Boiling Point】 123.9 - 124.3 (14 torr)



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【Vapor Pressure】 .2

【Density】 1.799 g/cm³ (20 C)

【pKa/pKb】 9.98 (pKb)

【Partition Coefficient】 2.26

【Usage】

In prepn of azo dyes, condensed with formaldehyde in prepn of dihydroquinazolines.

【Saturation Concentration】

224 ppm (0.02%) at 25 C (calculated)

【Vapor Density】 5.9

【Refractive Index】 1.5835 (99.6 C)

First Aid Measures

【Ingestion】

Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

【Inhalation】

Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. DO NOT use mouth-to-mouth respiration.

【Skin】

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

【Eyes】

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper



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and lower eyelids. Get medical aid immediately.

Handling and Storage

【Storage】

Store in a cool place in the original container and protect from sunlight. Store in a tightly closed container.

【Handling】

Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Keep container tightly closed. Do not get on skin or in eyes. Do not ingest or inhale. Wash clothing before reuse.

Hazards Identification

【Inhalation】

May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. Inhalation of aniline causes anoxia due to the formation of methemoglobinemia.

【Skin】 May cause severe skin irritation.

【Eyes】 May cause severe eye irritation. May result in corneal injury.

【Ingestion】

Harmful if swallowed. May cause methemoglobinemia, cyanosis, convulsions, and death. May cause severe digestive tract irritation with abdominal pain, nausea, vomiting and diarrhea.

【Hazards】 Contact with metals may evolve flammable hydrogen gas.

【EC Risk Phrase】 R 20/21/22 33

【EC Safety Phrase】 S 28 36/37

【UN (DOT)】 2811

Exposure Controls/Personal Protection

【Personal Protection】



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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 Standard EN166. Skin: Wear appropriate protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure.

【Respirators】

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

【Exposure Effects】

May cause liver and kidney damage. Prolonged exposure may cause anemia and methemoglobinemia, characterized by dizziness, drowsiness, headache, breath shortness, cyanosis, rapid heart rate and chocolate-brown colored blood.

Fire Fighting Measures

【Flash Point】 >112

【Fire Fighting】

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. To extinguish fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Use agent most appropriate to extinguish fire.

【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. Reduce airborne dust and prevent scattering by moistening with water. Clean up spills immediately, using the appropriate protective equipment. Avoid generating dusty conditions. Provide ventilation.

Stability and Reactivity

【Disposal Code】 9

【Incompatibilities】



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Acids, acid chlorides, acid anhydrides, chloroformates, strong oxidizing agents, and sunlight.

【Stability】 Stable under normal temperatures and pressures.

【Decomposition】

Nitrogen oxides, carbon monoxide, carbon dioxide, hydrogen bromide, nitrogen.

【Combustion Products】

Fire may produce irritating, corrosive and/or toxic gases.

Transport Information

【UN Number】 2811

【Hazard Class】 6.1

【Packing Group】 I; II; III

【HS Code】 2921 42 10