Toxicity and Hazards.

According to Sax Hand Book on Dangerous Properties of Industrial materials, chlorinated biphenyls are considered to be toxic and hazardous (ref. pg 596). Contact with the skin and inhalation should be carefully avoided. They can be absorbed through the skin and cause systemic reactions and skin lesions known as chloracne, comedones. Pustules also develop.

The fire hazard is slight when exposed to heat and flame. They can be dangerous when heated to decomposition, they emit highly toxic fumes.

The dangers of working with hydrogen, acetylene and hydrogen chloride are self evident. Hydrogen and acetylene are explosive in certain portions of air and hydrogen chloride is a severe eye skin and respiratory irritant.

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For carrying out the experimental work on the explosive limits of the decomposition products the tests should be started near the expected parameters near the high and low