

***p*-Dichlorobenzene**  
**C<sub>6</sub>H<sub>4</sub>Cl<sub>2</sub>**  
**[CAS No. 106-46-7]**  
**Reproductive toxicant: Group 3**

There are no case reports or epidemiological studies that have clearly shown a positive correlation between occupational exposure to *p*-dichlorobenzene and adverse effects on pregnancy. As for animal studies, reduced litter size and decreased body weights were observed in rat offspring without parental toxicity in a two-generation reproductive study by gavage administration<sup>1)</sup>. However, several studies by inhalation exposure in rats and rabbits failed to show clear evidence of reproductive toxicity<sup>2-5)</sup>. Based on this evidence, *p*-dichlorobenzene is classified as a Group 3 reproductive toxicant.

**References**

- 1) Bronatowicz N, Antes A, Winker N, Hofer H. 2-Generationen-fertilitaetstudie mit 1,4-Dichlorobenzol an ratten. Wiener klin Wochenschrift 1994; 106: 345-53.
- 2) Hayes WC, Hanley TR, Gushow TS, et al. Teratogenic potential of inhaled dichlorobenzenes in rats and rabbits. Fund Appl Toxicol 1985; 5: 190-202.
- 3) Chlorobenzene Producers Association, Parachlorobenzene: Two generation reproduction study in Sprague-Dawley rats. Study 86-81-90605. MRID No. 411088-1, 1986, Available from EPA, 1986.
- 4) Neeper-Bradley TL, Tyl RW, Fisher LC, et al. Reproductive toxicity study of inhaled paradichlorobenzene (PDCB) vapour in CD rats. Teratology Society Abstracts 1989; 5: 470-1.
- 5) Tyl RW and Neeper-Bradley TL. Two-generation reproduction study of inhaled paradichlorobenzene in Sprague-Dawley (CD) rats. Bushy Run Research Center, Project Report 1989; 51-593.