| Table 2-2. Summary of chronic aquatic toxicity data for 6PPD and 6PPD q | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Chemical | Receptor (general) | Receptor (specific) | Benchmark Value  (NOEC, LC10) | Units | Duration | Endpoint | Reference | |
| 6PPD | Fish | Fathead minnow, *Pimephales promelas* | 86 | µg/g dw | 21d | Mortality | (R. S. Prosser et al. 2017) | |
| 6PPD | Fish | Fathead minnow, *Pimephales promelas* | 20 | µg/L | 21d | Mortality | (R. S. Prosser et al. 2017) | |
| 6PPD | Fish | Japanese medaka, *Oryzias latipes* | 3.7 | µg/L | 30d | Mortality | (Japan Ministry of the Environment 2018) | |
| 6PPD | Invertebrate | Amphipod, *Hyalella azteca* | 68 | µg/g dw | 28d | Mortality | (R. S. Prosser et al. 2017) | |
| 6PPD | Invertebrate | Amphipod, *Hyalella azteca* | 6 | µg/L | 28d | Mortality | (R. S. Prosser et al. 2017) | |
| 6PPD | Invertebrate | Aquatic worm, *Tubifex tubifex* | 63 | µg/g dw | 28d | Mortality | (R. S. Prosser et al. 2017) | |
| 6PPD | Invertebrate | Fatmucket mussel, *Lampsilis siliquoidea* | 47 | µg/L | 14d | Mortality | (R.S. Prosser et al. 2017) | |
| 6PPD | Invertebrate | Fatmucket mussel, *Lampsilis siliquoidea* | 17 | µg/L | 28d | Mortality | (R.S. Prosser et al. 2017) | |
| 6PPD | Invertebrate | Fatmucket mussel, *Lampsilis siliquoidea* | 188 | µg/g dw | 14d | Mortality | (R.S. Prosser et al. 2017) | |
| 6PPD | Invertebrate | Fatmucket mussel, *Lampsilis siliquoidea* | 62 | µg/g dw | 28d | Mortality | (R.S. Prosser et al. 2017) | |
| 6PPD | Plant/algae | Algae, *Selenastrum capricornutum* | 200 | µg/L | 96h | Cell number | (Monsanto Company 1978, as cited in OECD 2004) | |
| 6PPD‑q | Fish | Coho salmon, *Oncorhynchus kisutch* | 0.1 | µg/L | 16d, pulsed exposure for 24h | Mortality | (Greer et al. 2023b) | |
| 6PPD‑q | Fish | Fathead minnow, *Pimephales promelas* | > 39.27 | µg/L | 7d | Mortality | (Anderson-Bain et al. 2023) | |
| 6PPD‑q | Fish | Lake trout, *Salvelinus namaycush* | 0.33 | µg/L | 45d | Mortality | (Roberts et al. 2024)\*\* | |
| 6PPD‑q | Fish | Rainbow trout, *Oncorhynchus mykiss* | 0.56 | µg/L | 28d | Mortality | (Roberts et al. 2024)\*\* | |
| 6PPD‑q | Invertebrate | File ramshorn snail, *Planorbella pilsbryi* | > 11.7 | µg/L | 10d | Mortality and hatching | (R. S. Prosser, Salole, and Hang 2023) | |
| 6PPD‑q | Invertebrate | Freshwater rotifer, *Brachionus calyciflorus* | > 1,000 | µg/L | 12d | Mortality | (Klauschies and Isanta-Navarro 2022) | |
| 6PPD‑q | Invertebrate | Marine rotifer, *Brachionus koreanus* | > 1,000 | µg/L | 24h | Fecundity | (Maji et al. 2023) | |
| 6PPD‑q | Invertebrate | Nematode, *Caenorhabditis elegans* | 10 | µg/L | 4.5 d | Mortality | (Hua et al. 2023c) | |
| 6PPD‑q | Invertebrate | Nematode, *Caenorhabditis elegans* | 1 | µg/L | 4.5 d | Paralysis | (Hua et al. 2023a) | |
| 6PPD‑q | Invertebrate | Nematode, *Caenorhabditis elegans* | 0.1 | µg/L | 4.5 d | Brood size | (Hua et al. 2023b) | |
| 6PPD‑q | Invertebrate | Springtail, *Folsomia candida* | 16.31 | mg/kg | 28d | Mortality | (Xu et al. 2023) | |
| 6PPD‑q | Invertebrate | Water flea, *Daphnia magna* | > 42 | µg/L | 21d | Mortality and growth | (R. S. Prosser, Salole, and Hang 2023) | |

Note: \*\*=Citation is pre-proof, presentation, or non-peer-reviewed article; µg/g=microgram per gram; µg/L=micrograms per liter; d=days; dw=dry weight; h=hours; kg=kilogram, mg=milligram; NOEC=no observed effect level concentration

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