

TABLE 2.—SUMMARY OF TOXICOLOGICAL DOSE AND ENDPOINTS FOR PYRAFLUFEN-ETHYL FOR USE IN HUMAN RISK ASSESSMENT

| Exposure Scenario | Dose (mg/kg/day) UF/MOE | Hazard Based Special FQPA Safety Factor | Endpoint for Risk Assessment |
|---|--|---|--|
| Dietary Risk Assessments | | | |
| Acute dietary | Not applicable | Not applicable | No adverse effect attributable to a single exposure (dose) was observed in oral toxicity studies, including the developmental toxicity studies in rats and rabbits. |
| Chronic dietary | NOAEL= 20 UF = 100 Chronic RfD = 0.20 mg/kg/day | 1X | Mouse carcinogenicity. LOAEL = 98 mg/kg/day based on liver toxicity. |
| Incidental oral short-term (1–30 days) residential only | NOAEL= 20 UF = 100 MOE=100 | 1X | Developmental toxicity-rabbit. LOAEL = 60 mg/kg/day based on decreases in body weight and food consumption, GI observations, and abortions. |
| Incidental oral intermediate-term (1–6 months) residential only | NOAEL= 20 UF = 100 MOE=100 | 1X | Mouse carcinogenicity. LOAEL = 98 mg/kg/day based on liver toxicity at interim sacrifice. |
| Non-Dietary Risk Assessments | | | |
| Dermal short-term and intermediate-term | Not applicable | Not applicable | In a 28-dermal toxicity study in rats, no dermal or systemic toxicity was seen at the LTD (1,000 mg/kg/day). The physical and chemical characteristics (e.g., Kow is low) indicate that dermal absorption is not expected to occur to any appreciable extent. There is no concern for prenatal and/or postnatal toxicity. Therefore, no hazard was identified and quantification of dermal risk is not required. |
| Residential | MOE = not applicable | Not applicable | |
| Occupational | MOE = not applicable | Not applicable | |
| Inhalation ¹ short-term (1–30 days) | Oral NOAEL= 20 | 1X | Developmental toxicity-rabbit. LOAEL = 60 mg/kg/day based on decreases in bwt and food consumption, GI observations, and abortions. |
| Residential | MOE = 100 | | |
| Occupational | MOE= 100 | | |
| Inhalation ¹ intermediate-term (1–6 months) | Oral NOAEL= 20 | 1X | Mouse carcinogenicity. LOAEL = 98 mg/kg/day based on liver toxicity at interim sacrifice. |
| Residential | MOE = 100 | | |
| Occupational | MOE= 100 | | |
| Inhalation ¹ long-term (< 6 months) | Oral NOAEL= 20 | 1X | Mouse carcinogenicity. LOAEL = 98 mg/kg/day based on liver toxicity. |
| Residential | MOE =100 | | |
| Occupational | MOE= 100 | | |
| Cancer | Classification: “Likely to be Carcinogenic to Humans” by the oral route $Q_1^* = 3.32 \times 10^{-2} \text{ (mg/kg/day)}^{-1}$ | | |

1-Oral endpoints were selected because inhalation studies were unavailable. Absorption via the inhalation route is presumed to be equivalent to oral absorption.

* The reference to the FQPA SF refers to any additional SF retained due to concerns unique to the FQPA.