

US EPA ARCHIVE DOCUMENT

Table SP6. Results by Sub-Populations - Aerated Tanks

| Aerated Tanks - 2000m |           | Protection Group 1 |               |               |               |               |               |               |               |         |    |
|-----------------------|-----------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------|----|
|                       |           | 10-6               |               | 99% Pop       |               | 95% Prob      |               | HH (0.1)      |               | Eco (1) |    |
|                       |           | Beef/Dairy Farmer  |               | Gardener      |               | Fisher        |               | Resident      |               |         |    |
| Chemical Name         | CASRN     | Risk               | HQ            | Risk          | HQ            | Risk          | HQ            | Risk          | HQ            | Risk    | HQ |
| Acrylonitrile         | 107-13-1  | = 3E-05,(ing)      | = 2E+00,(ing) | = 4E-06,(ing) | = 4E-03,(ing) | < 1E-06,(ing) | = 7E-03,(ing) | = 5E-07,(inh) | < 1E-01,(inh) |         |    |
| Benzene               | 71-43-2   | = 5E-06,(cmb)      | note 3        | < 1E-06,(cmb) | note 3        | = 2E-06,(cmb) | note 3        | = 8E-07,(cmb) | note 3        |         |    |
| Pentachlorophenol     | 87-86-5   | < 1E-08,(inh)      | < 1E-01,(inh) | < 1E-08,(inh) | < 1E-01,(inh) | < 1E-08,(inh) | < 1E-01,(inh) | < 1E-08,(inh) | < 1E-01,(inh) |         |    |
| Mercury               | 7439-97-6 | note 2             | < 1E-01,(inh) | note 2        | < 1E-01,(inh) | note 2        | < 1E-01,(inh) | note 2        | < 1E-01,(inh) |         |    |
| Lead                  | 7439-92-1 | NA                 | NA            | NA            | NA            | NA            | NA            | NA            | NA            |         |    |

|                   |           | Protection Group 2 |               |               |               |               |               |               |               |         |    |
|-------------------|-----------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------|----|
|                   |           | 10-6               |               | 99% Pop       |               | 90% Prob      |               | HH (1)        |               | Eco (1) |    |
|                   |           | Beef/Dairy Farmer  |               | Gardener      |               | Fisher        |               | Resident      |               |         |    |
| Chemical Name     | CASRN     | Risk               | HQ            | Risk          | HQ            | Risk          | HQ            | Risk          | HQ            | Risk    | HQ |
| Acrylonitrile     | 107-13-1  | = 3E-05,(ing)      | = 2E+00,(ing) | = 3E-06,(ing) | = 7E-03,(ing) | < 1E-06,(ing) | = 1E-02,(ing) | = 4E-07,(inh) | < 1E-01,(inh) |         |    |
| Benzene           | 71-43-2   | = 6E-06,(cmb)      | note 3        | < 1E-06,(cmb) | note 3        | = 2E-06,(cmb) | note 3        | = 6E-07,(cmb) | note 3        |         |    |
| Pentachlorophenol | 87-86-5   | < 1E-08,(inh)      | < 1E-01,(inh) | < 1E-08,(inh) | < 1E-01,(inh) | < 1E-08,(inh) | < 1E-01,(inh) | < 1E-08,(inh) | < 1E-01,(inh) |         |    |
| Mercury           | 7439-97-6 | note 2             | < 1E-01,(inh) | note 2        | < 1E-01,(inh) | note 2        | < 1E-01,(inh) | note 2        | < 1E-01,(inh) |         |    |
| Lead              | 7439-92-1 | NA                 | NA            | NA            | NA            | NA            | NA            | NA            | NA            |         |    |

| Aerated Tanks - 2000m - by Sub-Populations |           | Protection Group 3 |               |               |               |               |               |               |               |         |    |
|--|-----------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------|----|
|  |           | 10-5               |               | 99% Pop       |               | 90% Prob      |               | HH (1)        |               | Eco (1) |    |
|  |           | Beef/Dairy Farmer  |               | Gardener      |               | Fisher        |               | Resident      |               |         |    |
| Chemical Name                              | CASRN     | Risk               | HQ            | Risk          | HQ            | Risk          | HQ            | Risk          | HQ            | Risk    | HQ |
| Acrylonitrile                              | 107-13-1  | = 7E-05,(ing)      | = 7E+00,(ing) | = 6E-05,(ing) | = 7E-01,(ing) | = 4E-05,(ing) | = 8E-01,(ing) | = 8E-06,(inh) | = 7E-01,(inh) |         |    |
| Benzene                                    | 71-43-2   | < 1E-05,(cmb)      | note 3        | < 1E-05,(cmb) | note 3        | < 1E-05,(cmb) | note 3        | < 5E-06,(cmb) | note 3        |         |    |
| Pentachlorophenol                          | 87-86-5   | < 1E-08,(inh)      | < 1E-01,(inh) | < 1E-08,(inh) | < 1E-01,(inh) | < 1E-08,(inh) | < 1E-01,(inh) | < 1E-08,(inh) | < 1E-01,(inh) |         |    |
| Mercury                                    | 7439-97-6 | note 2             | < 1E-01,(inh) | note 2        | < 1E-01,(inh) | note 2        | < 1E-01,(inh) | note 2        | < 1E-01,(inh) |         |    |
| Lead                                       | 7439-92-1 | NA                 | NA            | NA            | NA            | NA            | NA            | NA            | NA            |         |    |

|                   |           | Protection Group 4 |               |               |               |               |               |               |               |          |    |
|-------------------|-----------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------|----|
|                   |           | 10-5               |               | 95% Pop       |               | 90% Prob      |               | HH (1)        |               | Eco (10) |    |
|                   |           | Beef/Dairy Farmer  |               | Gardener      |               | Fisher        |               | Resident      |               |          |    |
| Chemical Name     | CASRN     | Risk               | HQ            | Risk          | HQ            | Risk          | HQ            | Risk          | HQ            | Risk     | HQ |
| Acrylonitrile     | 107-13-1  | = 9E-05,(ing)      | = 9E+00,(ing) | = 5E-05,(ing) | = 6E-01,(ing) | = 4E-05,(ing) | = 6E-01,(ing) | = 7E-06,(inh) | = 5E-01,(inh) |          |    |
| Benzene           | 71-43-2   | < 1E-05,(cmb)      | note 3        | < 1E-06,(cmb) | note 3        | < 1E-06,(cmb) | note 3        | < 1E-08,(cmb) | note 3        |          |    |
| Pentachlorophenol | 87-86-5   | < 1E-08,(inh)      | < 1E-01,(inh) | < 1E-08,(inh) | < 1E-01,(inh) | < 1E-08,(inh) | < 1E-01,(inh) | < 1E-08,(inh) | < 1E-01,(inh) |          |    |
| Mercury           | 7439-97-6 | note 2             | < 1E-01,(inh) | note 2        | < 1E-01,(inh) | note 2        | < 1E-01,(inh) | note 2        | < 1E-01,(inh) |          |    |
| Lead              | 7439-92-1 | NA                 | NA            | NA            | NA            | NA            | NA            | NA            | NA            |          |    |

- note 1: Human impacts were not evaluated due to the lack of human health toxicity values.
- note 2: The risk was not calculated for this chemical because the chemical did not have a cancer slope factor.
- note 3: The hazard was not calculated for this chemical because it did not have a noncancer reference dose or reference concentration.
- NA: Not Applicable
- No Curve: For this chemical, inhalation and ingestion pathways are not additive.