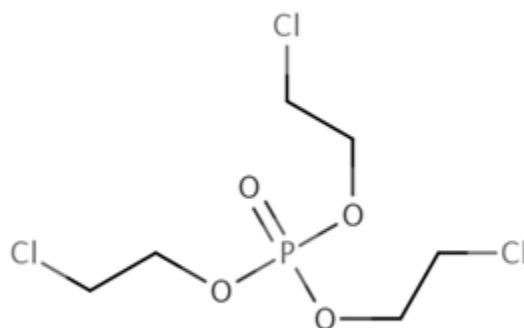


Risk Evaluation for for Tris(2-chloroethyl) Phosphate (TCEP)

Supplemental Information File:

Consumer Modeling Results for TCEP

CASRN: 115-96-8



September 2024

TCEP_acoustic0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Drywall
 Use Environment: Residence - Bedroom
 Scenario Description/Notes: Not provided

TCEP_acoustic0624: Combined Analysis Results

| Receptor | Inhalation | | Ingestion | | Dermal | | Total | |
|---------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|
| | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) |
| Lifetime_LADD | 0.00E+00 | 1.48E-01 | 0.00E+00 | 5.83E-04 | 0.00E+00 | 7.92E-05 | 0.00E+00 | 1.49E-01 |
| Adult | 5.31E+00 | 1.15E-01 | 5.91E-03 | 2.45E-04 | 1.90E-03 | 7.36E-05 | 5.32E+00 | 1.15E-01 |
| Youth2 | 6.62E+00 | 1.43E-01 | 1.32E-02 | 5.46E-04 | 1.78E-03 | 6.88E-05 | 6.63E+00 | 1.44E-01 |
| Youth1 | 7.73E+00 | 1.67E-01 | 1.66E-02 | 6.89E-04 | 1.94E-03 | 7.52E-05 | 7.75E+00 | 1.68E-01 |
| Child2 | 1.10E+01 | 2.37E-01 | 2.97E-02 | 1.23E-03 | 2.46E-03 | 9.52E-05 | 1.10E+01 | 2.38E-01 |
| Child1 | 1.57E+01 | 3.40E-01 | 8.45E-02 | 3.50E-03 | 3.05E-03 | 1.18E-04 | 1.58E+01 | 3.43E-01 |
| Infant2 | 1.94E+01 | 4.18E-01 | 7.48E-02 | 3.10E-03 | 3.53E-03 | 1.37E-04 | 1.94E+01 | 4.21E-01 |
| Infant1 | 2.06E+01 | 4.44E-01 | 6.05E-02 | 2.51E-03 | 4.13E-03 | 1.60E-04 | 2.06E+01 | 4.46E-01 |

TCEP_acoustic0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Drywall
 Use Environment: Residence - Bedroom
 Scenario Description/Notes: Not provided

TCEP_acoustic0624: Inhalation Results

Chronic Inhalation Results:

| Receptor | Steady-State Air SVOC Conc (ug/m3) | Background Air Chronic ADD (mg/kg-d) | Gas Phase Chronic ADD (mg/kg-d) | Steady-State RP SVOC Conc (ug/mg) | Particulate Phase Chronic ADD (mg/kg/d) | Inhalation Total Chronic ADD (mg/kg/d) |
|----------|------------------------------------|--------------------------------------|---------------------------------|-----------------------------------|---|--|
| Adult | 7.52e+02 | 0.00e+00 | 1.15e-01 | 2.25e-01 | 3.76e-06 | 1.15e-01 |
| Youth2 | 7.52e+02 | 0.00e+00 | 1.43e-01 | 2.25e-01 | 4.68e-06 | 1.43e-01 |
| Youth1 | 7.52e+02 | 0.00e+00 | 1.67e-01 | 2.25e-01 | 5.47e-06 | 1.67e-01 |
| Child2 | 7.52e+02 | 0.00e+00 | 2.37e-01 | 2.25e-01 | 7.75e-06 | 2.37e-01 |
| Child1 | 7.52e+02 | 0.00e+00 | 3.40e-01 | 2.25e-01 | 1.11e-05 | 3.40e-01 |
| Infant2 | 7.52e+02 | 0.00e+00 | 4.18e-01 | 2.25e-01 | 1.37e-05 | 4.18e-01 |
| Infant1 | 7.52e+02 | 0.00e+00 | 4.44e-01 | 2.25e-01 | 1.45e-05 | 4.44e-01 |

Time to background concentration- chronic (hr):

Acute Inhalation Results:

| Receptor | Background Air ADR (mg/kg/d) | Gas Phase ADR (mg/kg/d) | Particulate Phase ADR (mg/kg/d) | Inhalation Total ADR (mg/kg/d) |
|----------|------------------------------|-------------------------|---------------------------------|--------------------------------|
| Adult | 1.95e-05 | 5.31e+00 | 1.47e-04 | 5.31e+00 |
| Youth2 | 2.43e-05 | 6.62e+00 | 1.83e-04 | 6.62e+00 |
| Youth1 | 2.84e-05 | 7.73e+00 | 2.13e-04 | 7.73e+00 |
| Child2 | 4.03e-05 | 1.10e+01 | 3.02e-04 | 1.10e+01 |
| Child1 | 5.79e-05 | 1.57e+01 | 4.34e-04 | 1.57e+01 |
| Infant2 | 7.12e-05 | 1.94e+01 | 5.34e-04 | 1.94e+01 |
| Infant1 | 7.56e-05 | 2.06e+01 | 5.67e-04 | 2.06e+01 |

Time to background concentration- acute (hr):

TCEP_acoustic0624 Full Analysis Results

Chemical: TCEP
Product/Article: Drywall
Use Environment: Residence - Bedroom
Scenario Description/Notes: Not provided

TCEP_acoustic0624: Ingestion Results

Chronic Ingestion Results:

| Receptor | Background Dust Chronic ADD (mg/kg/d) | Mouthing Chronic ADD (mg/kg/d) | Ingestion After Inhalation Chronic ADD (mg/kg/d) | Incidental Dust Chronic ADD (mg/kg/d) | Maximum Incidental Dust Chronic ADD (mg/kg/d) |
|----------|---------------------------------------|--------------------------------|--|---------------------------------------|---|
| Adult | 0.00E+00 | 0.00E+00 | 5.01E-07 | 2.44E-04 | 4.01E-01 |
| Youth2 | 0.00E+00 | 0.00E+00 | 6.24E-07 | 5.46E-04 | 8.97E-01 |
| Youth1 | 0.00E+00 | 0.00E+00 | 7.29E-07 | 6.88E-04 | 1.13E+00 |
| Child2 | 0.00E+00 | 0.00E+00 | 1.03E-06 | 1.23E-03 | 2.02E+00 |
| Child1 | 0.00E+00 | 0.00E+00 | 1.48E-06 | 3.50E-03 | 5.75E+00 |
| Infant2 | 0.00E+00 | 0.00E+00 | 1.83E-06 | 3.10E-03 | 5.10E+00 |
| Infant1 | 0.00E+00 | 0.00E+00 | 1.94E-06 | 2.50E-03 | 4.12E+00 |

Acute Ingestion Results:

| Receptor | Background Dust ADR (mg/kg/d) | Mouthing ADR (mg/kg/d) | Ingestion After Inhalation ADR (mg/kg/d) | Incidental Dust ADR (mg/kg/d) | Maximum Incidental Dust ADR (mg/kg/d) |
|----------|-------------------------------|------------------------|--|-------------------------------|---------------------------------------|
| Adult | 0.00E+00 | 0.00E+00 | 1.95E-05 | 5.89E-03 | 4.01E-01 |
| Youth2 | 0.00E+00 | 0.00E+00 | 2.43E-05 | 1.32E-02 | 8.97E-01 |
| Youth1 | 0.00E+00 | 0.00E+00 | 2.84E-05 | 1.66E-02 | 1.13E+00 |
| Child2 | 0.00E+00 | 0.00E+00 | 4.03E-05 | 2.96E-02 | 2.02E+00 |
| Child1 | 0.00E+00 | 0.00E+00 | 5.79E-05 | 8.44E-02 | 5.75E+00 |
| Infant2 | 0.00E+00 | 0.00E+00 | 7.12E-05 | 7.48E-02 | 5.10E+00 |
| Infant1 | 0.00E+00 | 0.00E+00 | 7.56E-05 | 6.04E-02 | 4.12E+00 |

TCEP_acoustic0624 Full Analysis Results

Chemical: TCEP
Product/Article: Drywall
Use Environment: Residence - Bedroom
Scenario Description/Notes: Not provided

TCEP_acoustic0624: Dermal Results

Chronic Dermal Results:

| Receptor | Skin Contact Chronic ADD (mg/kg/d) | Vapor to Skin Chronic ADD (mg/kg/d) | Skin Contact with Dust Chronic ADD (mg/kg/d) | Total Chronic ADD (mg/kg/d) |
|----------|------------------------------------|-------------------------------------|--|-----------------------------|
| Adult | 0.00E+00 | 5.64E-06 | 6.79E-05 | 7.36E-05 |
| Youth2 | 0.00E+00 | 5.27E-06 | 6.35E-05 | 6.88E-05 |
| Youth1 | 0.00E+00 | 5.77E-06 | 6.95E-05 | 7.52E-05 |
| Child2 | 0.00E+00 | 7.30E-06 | 8.79E-05 | 9.52E-05 |
| Child1 | 0.00E+00 | 9.05E-06 | 1.09E-04 | 1.18E-04 |
| Infant2 | 0.00E+00 | 1.05E-05 | 1.26E-04 | 1.37E-04 |
| Infant1 | 0.00E+00 | 1.23E-05 | 1.48E-04 | 1.60E-04 |

Acute Dermal Results:

| Receptor | Skin Contact ADR (mg/kg/d) | Vapor to Skin ADR (mg/kg/d) | Skin Contact with Dust ADR (mg/kg/d) | Total ADR (mg/kg/d) |
|----------|----------------------------|-----------------------------|--------------------------------------|---------------------|
| Adult | 0.00E+00 | 2.61E-04 | 1.64E-03 | 1.90E-03 |
| Youth2 | 0.00E+00 | 2.44E-04 | 1.53E-03 | 1.78E-03 |
| Youth1 | 0.00E+00 | 2.67E-04 | 1.67E-03 | 1.94E-03 |
| Child2 | 0.00E+00 | 3.38E-04 | 2.12E-03 | 2.46E-03 |
| Child1 | 0.00E+00 | 4.19E-04 | 2.63E-03 | 3.05E-03 |
| Infant2 | 0.00E+00 | 4.85E-04 | 3.04E-03 | 3.53E-03 |
| Infant1 | 0.00E+00 | 5.67E-04 | 3.56E-03 | 4.13E-03 |

TCEP_acoustic0624 Full Analysis Results

Chemical: TCEP
Product/Article: Drywall
Use Environment: Residence - Bedroom
Scenario Description/Notes: Not provided

CEM Scenario Summary

Scenario Name and Definition

Scenario: TCEP_acoustic0624
Chemical: TCEP
Product/Article: Drywall
Use Environment: Residence - Bedroom

Scenario Description/notes:

Models

Models for the Selected Product or Article:

- E6: Emission from Article Placed in Environment
- A_INH1: Calculation of Inhalation Dose from Article Exposure
- A_ING1: Ingestion after Inhalation (Article Model)
- A_ING2: Ingestion of Article Mouthed
- A_ING3: Incidental Dust Ingestion (Article Model)
- A_DER1: Dermal Dose from Direct Transfer from Vapor Phase to Skin
- A_DER2: Dermal Dose from Article where Skin Contact Occurs
- A_DER3: Dermal Dose from Skin Contact with Dust

Additional Article Parameters

Article Users: Adult Youth Child
Activity Pattern: SAH Part-time Full-time

Inputs

TCEP_acoustic0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Drywall
 Use Environment: Residence - Bedroom
 Scenario Description/Notes: Not provided

| Location | Required Input | Value |
|--|---|----------|
| 1. Scenario | Background Air Concentration (mg/m3) | 0.00E+00 |
| 1. Scenario | Background Dust Concentration (ug/mg) | 0.00E+00 |
| 1. Scenario | Initial Concentration of SVOC in Article (mg/cm3) | 1.12E+01 |
| 1. Scenario | Weight Fraction of Chemical (-) | 6.80E-02 |
| 2. Inputs; a. Chemical Properties | Gas Phase Mass Transfer Coefficient (m/hr) | 1.87E+00 |
| 2. Inputs; a. Chemical Properties | Henry's Law Coefficient (atm/M) | 2.95E-06 |
| 2. Inputs; a. Chemical Properties | Log Octanol-air Partition Coefficient (-) | 7.86E+00 |
| 2. Inputs; a. Chemical Properties | Log Octanol-water partition coefficient (-) | 1.78E+00 |
| 2. Inputs; a. Chemical Properties | Molecular Weight (g/mol) | 2.85E+02 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Abraded Particle (m/hr): | 5.19E-01 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Dust (m/hr) | 9.70E-01 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Interior Surface (m/hr) | 8.79E-04 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, RP (m/hr) | 1.86E+00 |
| 2. Inputs; a. Chemical Properties | Saturation Concentration in Air (mg/m3) | 9.35E+02 |
| 2. Inputs; a. Chemical Properties | Solid-Air Partition Coefficient (-) | 6.33E+04 |
| 2. Inputs; a. Chemical Properties | Solid-Phase Diffusion Coefficient (m2/hr) | 3.47E-11 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, Abraded Particle(m3/mg) | 4.39E-03 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, Dust (m3/mg) | 7.24E-03 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, RP (m3/mg) | 2.90E-02 |
| 2. Inputs; a. Chemical Properties | Vapor Pressure (torr) | 6.10E-02 |
| 2. Inputs; a. Chemical Properties | Water Solubility (mg/mL) | 7.82E+00 |
| 2. Inputs; b. Product/Article Properties | Absorption Fraction, Acute (-) | 3.51E-01 |
| 2. Inputs; b. Product/Article Properties | Absorption Fraction, Chronic (-) | 3.51E-01 |
| 2. Inputs; b. Product/Article Properties | Adherence Factor (mg/cm2*event) | 4.00E-02 |
| 2. Inputs; b. Product/Article Properties | Area of Article Mouthed (cm2) | 0.00E+00 |
| 2. Inputs; b. Product/Article Properties | Average Molecule Diffusion per Contact (m) | 0.00E+00 |
| 2. Inputs; b. Product/Article Properties | Chemical Migration Rate (mg/cm2/hr) | 1.00E-01 |

TCEP_acoustic0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Drywall
 Use Environment: Residence - Bedroom
 Scenario Description/Notes: Not provided

| | | |
|--|--|----------|
| 2. Inputs; b. Product/Article Properties | Density of Product/Article (g/cm ³) | 1.65E-01 |
| 2. Inputs; b. Product/Article Properties | Duration of Article Contact (min) | 0.00E+00 |
| 2. Inputs; b. Product/Article Properties | Frequency of Article Contact (events/day) | 1.00E+00 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction - Dust (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction - TSP (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction, Abraded Particle (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Skin Permeability Coefficient (cm/hr) | 2.20E-03 |
| 2. Inputs; b. Product/Article Properties | Surface Area of Article (m ²) | 1.26E+01 |
| 2. Inputs; b. Product/Article Properties | Thickness of Article Surface Layer (m) | 5.00E-01 |
| 2. Inputs; b. Product/Article Properties | Transdermal Permeability Coefficient (m/hr) | 6.05E-04 |
| 2. Inputs; c. Environment Inputs | Abraded Particle Deposition Rate Constant (1/hr) | 2.34E+00 |
| 2. Inputs; c. Environment Inputs | Abraded Particle Resuspension Rate (1/hr) | 1.29E-04 |
| 2. Inputs; c. Environment Inputs | Ambient RP Concentration (mg/m ³) | 5.20E-02 |
| 2. Inputs; c. Environment Inputs | Area of Interior Surface (m ²) | 7.49E+01 |
| 2. Inputs; c. Environment Inputs | Cleaning Efficiency (-) | 4.60E-01 |
| 2. Inputs; c. Environment Inputs | Cleaning Frequency (per hour) | 6.00E-03 |
| 2. Inputs; c. Environment Inputs | Density of Particle, Dust (mg/m ³) | 2.00E+09 |
| 2. Inputs; c. Environment Inputs | Density of Particle, RP (mg/m ³) | 1.00E+09 |
| 2. Inputs; c. Environment Inputs | Deposition Rate, Dust (per hour) | 3.30E+00 |
| 2. Inputs; c. Environment Inputs | Deposition Rate, RP (per hour) | 1.00E+00 |
| 2. Inputs; c. Environment Inputs | Generation Rate of Abraded Particles (mg/hr) | 5.31E-03 |
| 2. Inputs; c. Environment Inputs | HVAC Filter Penetration for RP (-) | 5.00E-02 |
| 2. Inputs; c. Environment Inputs | Interzone Ventilation Rate (m ³ /hr) | 1.07E+02 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Floor Dust (mg/hr) | 2.53E+01 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Floor RP (mg/hr) | 0.00E+00 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Suspended Dust (mg/hr) | 1.18E+02 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Suspended RP (mg/hr) | 1.47E+01 |
| 2. Inputs; c. Environment Inputs | Radius of Abraded Particle (m) | 7.00E-05 |

TCEP_acoustic0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Drywall
 Use Environment: Residence - Bedroom
 Scenario Description/Notes: Not provided

| | | |
|----------------------------------|-----------------------------------|----------|
| 2. Inputs; c. Environment Inputs | Radius of Particle, Dust (m) | 5.00E-04 |
| 2. Inputs; c. Environment Inputs | Radius of Particle, RP (m) | 5.00E-06 |
| 2. Inputs; c. Environment Inputs | Resuspension Rate, Dust (per day) | 2.10E-04 |
| 2. Inputs; c. Environment Inputs | Resuspension Rate, RP (per day) | 2.60E-05 |
| 2. Inputs; c. Environment Inputs | Thickness of Interior Surface (m) | 5.00E-03 |
| 2. Inputs; c. Environment Inputs | Use Environment Volume (m3) | 3.60E+01 |

Exposure Factors

| Receptor | Body Weight | Inhalation Rate After Use | Dust Ingest Rate | Surface Area to Body Weight | TC |
|-------------------------|-------------|---------------------------|------------------|-----------------------------|------|
| Adult (≥21 years) | 80 | 0.61 | 30 | 6.19389587073609 | 6800 |
| Youth (16-20 years) | 71.6 | 0.68 | 60 | 5.79608938547486 | 5576 |
| Youth (11-15 years) | 56.8 | 0.63 | 60 | 6.33802816901408 | 5576 |
| Child (6-10 years) | 31.8 | 0.5 | 60 | 8.0188679245283 | 3740 |
| Small Child (3-5 years) | 18.6 | 0.42 | 100 | 9.94623655913978 | 2652 |
| Infant (1-2 years) | 12.6 | 0.35 | 60 | 11.5079365079365 | 1972 |
| Infant (<1 year) | 7.8 | 0.23 | 30 | 13.4574468085106 | 1564 |

Notes: body weight = kg; dust ingest rate = mg/day; inhalation rate after use = m3/hr; surface area to body weight ratio = m2/kg; transfer coefficient(TC) = cm2/hr

| Receptor | Mouthing Dur | Exposure Dur-Chronic | Exposure Dur-Acute | Avg Time-Chronic | Avg Time-Acute |
|-------------------------|--------------|----------------------|--------------------|------------------|----------------|
| Adult (≥21 years) | 0 | 1 | 1 | 1 | 1 |
| Youth (16-20 years) | 0 | 1 | 1 | 1 | 1 |
| Youth (11-15 years) | 0 | 1 | 1 | 1 | 1 |
| Child (6-10 years) | 1.7 | 1 | 1 | 1 | 1 |
| Small Child (3-5 years) | 1.7 | 1 | 1 | 1 | 1 |
| Infant (1-2 years) | 8.5 | 1 | 1 | 1 | 1 |
| Infant (<1 year) | 10 | 1 | 1 | 1 | 1 |

Notes: mouthing duration = min/hr; averaging time - chronic = years; averaging time - acute = days; exposure duration - chronic = years; averaging time - acute = days

TCEP_mattress0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Residence - Bedroom
 Scenario Description/Notes: Not provided

TCEP_mattress0624: Combined Analysis Results

| Receptor | Inhalation | | Ingestion | | Dermal | | Total | |
|---------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|
| | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) |
| Lifetime_LADD | 0.00E+00 | 8.78E-05 | 0.00E+00 | 1.63E-02 | 0.00E+00 | 1.68E-03 | 0.00E+00 | 1.80E-02 |
| Adult | 3.15E-03 | 6.79E-05 | 3.50E-06 | 1.45E-07 | 1.55E-03 | 1.54E-03 | 4.70E-03 | 1.60E-03 |
| Youth2 | 3.92E-03 | 8.46E-05 | 7.80E-06 | 3.24E-07 | 1.62E-03 | 1.61E-03 | 5.54E-03 | 1.69E-03 |
| Youth1 | 4.58E-03 | 9.88E-05 | 9.84E-06 | 4.08E-07 | 1.76E-03 | 1.75E-03 | 6.35E-03 | 1.85E-03 |
| Child2 | 6.49E-03 | 1.40E-04 | 2.14E-02 | 2.14E-02 | 2.14E-03 | 2.12E-03 | 3.00E-02 | 2.36E-02 |
| Child1 | 9.32E-03 | 2.01E-04 | 3.66E-02 | 3.66E-02 | 2.57E-03 | 2.55E-03 | 4.85E-02 | 3.93E-02 |
| Infant2 | 1.15E-02 | 2.47E-04 | 2.70E-01 | 2.70E-01 | 2.85E-03 | 2.83E-03 | 2.84E-01 | 2.73E-01 |
| Infant1 | 1.22E-02 | 2.63E-04 | 5.13E-01 | 5.13E-01 | 3.21E-03 | 3.18E-03 | 5.28E-01 | 5.16E-01 |

TCEP_mattress0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Residence - Bedroom
 Scenario Description/Notes: Not provided

TCEP_mattress0624: Inhalation Results

Chronic Inhalation Results:

| Receptor | Steady-State Air SVOC Conc (ug/m3) | Background Air Chronic ADD (mg/kg-d) | Gas Phase Chronic ADD (mg/kg-d) | Steady-State RP SVOC Conc (ug/mg) | Particulate Phase Chronic ADD (mg/kg/d) | Inhalation Total Chronic ADD (mg/kg/d) |
|----------|------------------------------------|--------------------------------------|---------------------------------|-----------------------------------|---|--|
| Adult | 4.45e-01 | 0.00e+00 | 6.79e-05 | 1.33e-04 | 2.28e-09 | 6.79e-05 |
| Youth2 | 4.45e-01 | 0.00e+00 | 8.46e-05 | 1.33e-04 | 2.85e-09 | 8.46e-05 |
| Youth1 | 4.45e-01 | 0.00e+00 | 9.88e-05 | 1.33e-04 | 3.32e-09 | 9.88e-05 |
| Child2 | 4.45e-01 | 0.00e+00 | 1.40e-04 | 1.33e-04 | 4.71e-09 | 1.40e-04 |
| Child1 | 4.45e-01 | 0.00e+00 | 2.01e-04 | 1.33e-04 | 6.77e-09 | 2.01e-04 |
| Infant2 | 4.45e-01 | 0.00e+00 | 2.47e-04 | 1.33e-04 | 8.32e-09 | 2.47e-04 |
| Infant1 | 4.45e-01 | 0.00e+00 | 2.63e-04 | 1.33e-04 | 8.84e-09 | 2.63e-04 |

Time to background concentration- chronic (hr):

Acute Inhalation Results:

| Receptor | Background Air ADR (mg/kg/d) | Gas Phase ADR (mg/kg/d) | Particulate Phase ADR (mg/kg/d) | Inhalation Total ADR (mg/kg/d) |
|----------|------------------------------|-------------------------|---------------------------------|--------------------------------|
| Adult | 1.19e-08 | 3.15e-03 | 8.96e-08 | 3.15e-03 |
| Youth2 | 1.49e-08 | 3.92e-03 | 1.12e-07 | 3.92e-03 |
| Youth1 | 1.74e-08 | 4.58e-03 | 1.30e-07 | 4.58e-03 |
| Child2 | 2.46e-08 | 6.49e-03 | 1.85e-07 | 6.49e-03 |
| Child1 | 3.54e-08 | 9.32e-03 | 2.65e-07 | 9.32e-03 |
| Infant2 | 4.35e-08 | 1.15e-02 | 3.26e-07 | 1.15e-02 |
| Infant1 | 4.62e-08 | 1.22e-02 | 3.47e-07 | 1.22e-02 |

Time to background concentration- acute (hr):

TCEP_mattress0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Residence - Bedroom
 Scenario Description/Notes: Not provided

TCEP_mattress0624: Ingestion Results

Chronic Ingestion Results:

| Receptor | Background Dust Chronic ADD (mg/kg/d) | Mouthing Chronic ADD (mg/kg/d) | Ingestion After Inhalation Chronic ADD (mg/kg/d) | Incidental Dust Chronic ADD (mg/kg/d) | Maximum Incidental Dust Chronic ADD (mg/kg/d) |
|----------|---------------------------------------|--------------------------------|--|---------------------------------------|---|
| Adult | 0.00E+00 | 0.00E+00 | 3.05E-10 | 1.45E-07 | 9.66E-04 |
| Youth2 | 0.00E+00 | 0.00E+00 | 3.79E-10 | 3.23E-07 | 2.16E-03 |
| Youth1 | 0.00E+00 | 0.00E+00 | 4.43E-10 | 4.07E-07 | 2.72E-03 |
| Child2 | 0.00E+00 | 2.14E-02 | 6.28E-10 | 7.28E-07 | 4.86E-03 |
| Child1 | 0.00E+00 | 3.66E-02 | 9.02E-10 | 2.07E-06 | 1.38E-02 |
| Infant2 | 0.00E+00 | 2.70E-01 | 1.11E-09 | 1.84E-06 | 1.23E-02 |
| Infant1 | 0.00E+00 | 5.13E-01 | 1.18E-09 | 1.48E-06 | 9.90E-03 |

Acute Ingestion Results:

| Receptor | Background Dust ADR (mg/kg/d) | Mouthing ADR (mg/kg/d) | Ingestion After Inhalation ADR (mg/kg/d) | Incidental Dust ADR (mg/kg/d) | Maximum Incidental Dust ADR (mg/kg/d) |
|----------|-------------------------------|------------------------|--|-------------------------------|---------------------------------------|
| Adult | 0.00E+00 | 0.00E+00 | 1.19E-08 | 3.49E-06 | 9.66E-04 |
| Youth2 | 0.00E+00 | 0.00E+00 | 1.49E-08 | 7.79E-06 | 2.16E-03 |
| Youth1 | 0.00E+00 | 0.00E+00 | 1.74E-08 | 9.82E-06 | 2.72E-03 |
| Child2 | 0.00E+00 | 2.14E-02 | 2.46E-08 | 1.75E-05 | 4.86E-03 |
| Child1 | 0.00E+00 | 3.66E-02 | 3.54E-08 | 5.00E-05 | 1.38E-02 |
| Infant2 | 0.00E+00 | 2.70E-01 | 4.35E-08 | 4.43E-05 | 1.23E-02 |
| Infant1 | 0.00E+00 | 5.13E-01 | 4.62E-08 | 3.58E-05 | 9.90E-03 |

TCEP_mattress0624 Full Analysis Results

Chemical: TCEP
Product/Article: Plastic articles: furniture (sofa, chairs, tables)
Use Environment: Residence - Bedroom
Scenario Description/Notes: Not provided

TCEP_mattress0624: Dermal Results

Chronic Dermal Results:

| Receptor | Skin Contact Chronic ADD (mg/kg/d) | Vapor to Skin Chronic ADD (mg/kg/d) | Skin Contact with Dust Chronic ADD (mg/kg/d) | Total Chronic ADD (mg/kg/d) |
|----------|------------------------------------|-------------------------------------|--|-----------------------------|
| Adult | 1.54E-03 | 3.32E-08 | 3.99E-07 | 1.54E-03 |
| Youth2 | 1.60E-03 | 3.46E-08 | 4.17E-07 | 1.61E-03 |
| Youth1 | 1.75E-03 | 3.77E-08 | 4.55E-07 | 1.75E-03 |
| Child2 | 2.12E-03 | 4.58E-08 | 5.52E-07 | 2.12E-03 |
| Child1 | 2.55E-03 | 5.51E-08 | 6.64E-07 | 2.55E-03 |
| Infant2 | 2.83E-03 | 6.10E-08 | 7.35E-07 | 2.83E-03 |
| Infant1 | 3.18E-03 | 6.87E-08 | 8.28E-07 | 3.18E-03 |

Acute Dermal Results:

| Receptor | Skin Contact ADR (mg/kg/d) | Vapor to Skin ADR (mg/kg/d) | Skin Contact with Dust ADR (mg/kg/d) | Total ADR (mg/kg/d) |
|----------|----------------------------|-----------------------------|--------------------------------------|---------------------|
| Adult | 1.54E-03 | 1.54E-06 | 9.63E-06 | 1.55E-03 |
| Youth2 | 1.60E-03 | 1.60E-06 | 1.01E-05 | 1.62E-03 |
| Youth1 | 1.75E-03 | 1.75E-06 | 1.10E-05 | 1.76E-03 |
| Child2 | 2.12E-03 | 2.12E-06 | 1.33E-05 | 2.14E-03 |
| Child1 | 2.55E-03 | 2.55E-06 | 1.60E-05 | 2.57E-03 |
| Infant2 | 2.83E-03 | 2.83E-06 | 1.77E-05 | 2.85E-03 |
| Infant1 | 3.18E-03 | 3.18E-06 | 2.00E-05 | 3.21E-03 |

TCEP_mattress0624 Full Analysis Results

Chemical: TCEP
Product/Article: Plastic articles: furniture (sofa, chairs, tables)
Use Environment: Residence - Bedroom
Scenario Description/Notes: Not provided

CEM Scenario Summary

Scenario Name and Definition

Scenario: TCEP_mattress0624
Chemical: TCEP
Product/Article: Plastic articles: furniture (sofa, chairs, tables)
Use Environment: Residence - Bedroom

Scenario Description/notes:

Models

Models for the Selected Product or Article:

- E6: Emission from Article Placed in Environment
- A_INH1: Calculation of Inhalation Dose from Article Exposure
- A_ING1: Ingestion after Inhalation (Article Model)
- A_ING2: Ingestion of Article Mouthed
- A_ING3: Incidental Dust Ingestion (Article Model)
- A_DER1: Dermal Dose from Direct Transfer from Vapor Phase to Skin
- A_DER2: Dermal Dose from Article where Skin Contact Occurs
- A_DER3: Dermal Dose from Skin Contact with Dust

Additional Article Parameters

Article Users: Adult Youth Child
Activity Pattern: SAH Part-time Full-time

Inputs

TCEP_mattress0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Residence - Bedroom
 Scenario Description/Notes: Not provided

| Location | Required Input | Value |
|--|---|----------|
| 1. Scenario | Background Air Concentration (mg/m3) | 0.00E+00 |
| 1. Scenario | Background Dust Concentration (ug/mg) | 0.00E+00 |
| 1. Scenario | Initial Concentration of SVOC in Article (mg/cm3) | 2.70E-02 |
| 1. Scenario | Weight Fraction of Chemical (-) | 9.00E-04 |
| 2. Inputs; a. Chemical Properties | Gas Phase Mass Transfer Coefficient (m/hr) | 1.87E+00 |
| 2. Inputs; a. Chemical Properties | Henry's Law Coefficient (atm/M) | 2.95E-06 |
| 2. Inputs; a. Chemical Properties | Log Octanol-air Partition Coefficient (-) | 7.86E+00 |
| 2. Inputs; a. Chemical Properties | Log Octanol-water partition coefficient (-) | 1.78E+00 |
| 2. Inputs; a. Chemical Properties | Molecular Weight (g/mol) | 2.85E+02 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Abraded Particle (m/hr): | 5.19E-01 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Dust (m/hr) | 9.70E-01 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Interior Surface (m/hr) | 8.79E-04 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, RP (m/hr) | 1.86E+00 |
| 2. Inputs; a. Chemical Properties | Saturation Concentration in Air (mg/m3) | 9.35E+02 |
| 2. Inputs; a. Chemical Properties | Solid-Air Partition Coefficient (-) | 6.33E+04 |
| 2. Inputs; a. Chemical Properties | Solid-Phase Diffusion Coefficient (m2/hr) | 3.47E-11 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, Abraded Particle(m3/mg) | 2.41E-02 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, Dust (m3/mg) | 7.24E-03 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, RP (m3/mg) | 2.90E-02 |
| 2. Inputs; a. Chemical Properties | Vapor Pressure (torr) | 6.10E-02 |
| 2. Inputs; a. Chemical Properties | Water Solubility (mg/mL) | 7.82E+00 |
| 2. Inputs; b. Product/Article Properties | Absorption Fraction, Acute (-) | 3.51E-01 |
| 2. Inputs; b. Product/Article Properties | Absorption Fraction, Chronic (-) | 3.51E-01 |
| 2. Inputs; b. Product/Article Properties | Adherence Factor (mg/cm2*event) | 4.00E-02 |
| 2. Inputs; b. Product/Article Properties | Area of Article Mouthed (cm2) | 1.00E+01 |
| 2. Inputs; b. Product/Article Properties | Average Molecule Diffusion per Contact (m) | 2.64E-03 |
| 2. Inputs; b. Product/Article Properties | Chemical Migration Rate (mg/cm2/hr) | 1.00E-01 |

TCEP_mattress0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Residence - Bedroom
 Scenario Description/Notes: Not provided

| | | |
|--|--|----------|
| 2. Inputs; b. Product/Article Properties | Density of Product/Article (g/cm ³) | 3.00E-02 |
| 2. Inputs; b. Product/Article Properties | Duration of Article Contact (min) | 6.00E+02 |
| 2. Inputs; b. Product/Article Properties | Frequency of Article Contact (events/day) | 1.00E+00 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction - Dust (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction - TSP (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction, Abraded Particle (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Skin Permeability Coefficient (cm/hr) | 2.20E-03 |
| 2. Inputs; b. Product/Article Properties | Surface Area of Article (m ²) | 3.10E+00 |
| 2. Inputs; b. Product/Article Properties | Thickness of Article Surface Layer (m) | 5.00E-01 |
| 2. Inputs; b. Product/Article Properties | Transdermal Permeability Coefficient (m/hr) | 6.05E-04 |
| 2. Inputs; c. Environment Inputs | Abraded Particle Deposition Rate Constant (1/hr) | 2.34E+00 |
| 2. Inputs; c. Environment Inputs | Abraded Particle Resuspension Rate (1/hr) | 1.29E-04 |
| 2. Inputs; c. Environment Inputs | Ambient RP Concentration (mg/m ³) | 5.20E-02 |
| 2. Inputs; c. Environment Inputs | Area of Interior Surface (m ²) | 7.49E+01 |
| 2. Inputs; c. Environment Inputs | Cleaning Efficiency (-) | 4.60E-01 |
| 2. Inputs; c. Environment Inputs | Cleaning Frequency (per hour) | 6.00E-03 |
| 2. Inputs; c. Environment Inputs | Density of Particle, Dust (mg/m ³) | 2.00E+09 |
| 2. Inputs; c. Environment Inputs | Density of Particle, RP (mg/m ³) | 1.00E+09 |
| 2. Inputs; c. Environment Inputs | Deposition Rate, Dust (per hour) | 3.30E+00 |
| 2. Inputs; c. Environment Inputs | Deposition Rate, RP (per hour) | 1.00E+00 |
| 2. Inputs; c. Environment Inputs | Generation Rate of Abraded Particles (mg/hr) | 5.31E-03 |
| 2. Inputs; c. Environment Inputs | HVAC Filter Penetration for RP (-) | 5.00E-02 |
| 2. Inputs; c. Environment Inputs | Interzone Ventilation Rate (m ³ /hr) | 1.07E+02 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Floor Dust (mg/hr) | 2.53E+01 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Floor RP (mg/hr) | 0.00E+00 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Suspended Dust (mg/hr) | 1.18E+02 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Suspended RP (mg/hr) | 1.47E+01 |
| 2. Inputs; c. Environment Inputs | Radius of Abraded Particle (m) | 7.00E-05 |

TCEP_mattress0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Residence - Bedroom
 Scenario Description/Notes: Not provided

| | | |
|----------------------------------|-----------------------------------|----------|
| 2. Inputs; c. Environment Inputs | Radius of Particle, Dust (m) | 5.00E-04 |
| 2. Inputs; c. Environment Inputs | Radius of Particle, RP (m) | 5.00E-06 |
| 2. Inputs; c. Environment Inputs | Resuspension Rate, Dust (per day) | 2.10E-04 |
| 2. Inputs; c. Environment Inputs | Resuspension Rate, RP (per day) | 2.60E-05 |
| 2. Inputs; c. Environment Inputs | Thickness of Interior Surface (m) | 5.00E-03 |
| 2. Inputs; c. Environment Inputs | Use Environment Volume (m3) | 3.60E+01 |

Exposure Factors

| Receptor | Body Weight | Inhalation Rate After Use | Dust Ingest Rate | Surface Area to Body Weight | TC |
|-------------------------|-------------|---------------------------|------------------|-----------------------------|------|
| Adult (≥21 years) | 80 | 0.61 | 30 | 61.47 | 6800 |
| Youth (16-20 years) | 71.6 | 0.68 | 60 | 64.25 | 5576 |
| Youth (11-15 years) | 56.8 | 0.63 | 60 | 69.98 | 5576 |
| Child (6-10 years) | 31.8 | 0.5 | 60 | 84.91 | 3740 |
| Small Child (3-5 years) | 18.6 | 0.42 | 100 | 102.15 | 2652 |
| Infant (1-2 years) | 12.6 | 0.35 | 60 | 113.1 | 1972 |
| Infant (<1 year) | 7.8 | 0.23 | 30 | 127.39 | 1564 |

Notes: body weight = kg; dust ingest rate = mg/day; inhalation rate after use = m3/hr; surface area to body weight ratio = m2/kg; transfer coefficient(TC) = cm2/hr

| Receptor | Mouthing Dur | Exposure Dur-Chronic | Exposure Dur-Acute | Avg Time-Chronic | Avg Time-Acute |
|-------------------------|--------------|----------------------|--------------------|------------------|----------------|
| Adult (≥21 years) | 0 | 1 | 1 | 1 | 1 |
| Youth (16-20 years) | 0 | 1 | 1 | 1 | 1 |
| Youth (11-15 years) | 0 | 1 | 1 | 1 | 1 |
| Child (6-10 years) | 1.7 | 1 | 1 | 1 | 1 |
| Small Child (3-5 years) | 1.7 | 1 | 1 | 1 | 1 |
| Infant (1-2 years) | 8.5 | 1 | 1 | 1 | 1 |
| Infant (<1 year) | 10 | 1 | 1 | 1 | 1 |

Notes: mouthing duration = min/hr; averaging time - chronic = years; averaging time - acute = days; exposure duration - chronic = years; averaging time - acute = days

TCEP_foamother0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

TCEP_foamother0624: Combined Analysis Results

| Receptor | Inhalation | | Ingestion | | Dermal | | Total | |
|---------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|
| | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) |
| Lifetime_LADD | 0.00E+00 | 2.49E-06 | 0.00E+00 | 8.14E-02 | 0.00E+00 | 9.53E-04 | 0.00E+00 | 8.23E-02 |
| Adult | 7.02E-04 | 1.93E-06 | 2.47E-07 | 1.05E-09 | 8.96E-04 | 8.69E-04 | 1.60E-03 | 8.71E-04 |
| Youth2 | 8.74E-04 | 2.40E-06 | 5.48E-07 | 2.35E-09 | 9.37E-04 | 9.08E-04 | 1.81E-03 | 9.11E-04 |
| Youth1 | 1.02E-03 | 2.80E-06 | 6.91E-07 | 2.96E-09 | 1.02E-03 | 9.89E-04 | 2.04E-03 | 9.92E-04 |
| Child2 | 1.45E-03 | 3.97E-06 | 1.07E-01 | 1.07E-01 | 1.24E-03 | 1.20E-03 | 1.10E-01 | 1.08E-01 |
| Child1 | 2.08E-03 | 5.70E-06 | 1.83E-01 | 1.83E-01 | 1.49E-03 | 1.44E-03 | 1.86E-01 | 1.84E-01 |
| Infant2 | 2.56E-03 | 7.02E-06 | 1.35E+00 | 1.35E+00 | 1.65E-03 | 1.60E-03 | 1.35E+00 | 1.35E+00 |
| Infant1 | 2.71E-03 | 7.45E-06 | 2.56E+00 | 2.56E+00 | 1.86E-03 | 1.80E-03 | 2.57E+00 | 2.57E+00 |

TCEP_foamother0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

TCEP_foamother0624: Inhalation Results

Chronic Inhalation Results:

| Receptor | Steady-State Air SVOC Conc (ug/m3) | Background Air Chronic ADD (mg/kg-d) | Gas Phase Chronic ADD (mg/kg-d) | Steady-State RP SVOC Conc (ug/mg) | Particulate Phase Chronic ADD (mg/kg/d) | Inhalation Total Chronic ADD (mg/kg/d) |
|----------|------------------------------------|--------------------------------------|---------------------------------|-----------------------------------|---|--|
| Adult | 1.26e-02 | 0.00e+00 | 1.93e-06 | 4.50e-06 | 6.61e-11 | 1.93e-06 |
| Youth2 | 1.26e-02 | 0.00e+00 | 2.40e-06 | 4.50e-06 | 8.23e-11 | 2.40e-06 |
| Youth1 | 1.26e-02 | 0.00e+00 | 2.80e-06 | 4.50e-06 | 9.61e-11 | 2.80e-06 |
| Child2 | 1.26e-02 | 0.00e+00 | 3.97e-06 | 4.50e-06 | 1.36e-10 | 3.97e-06 |
| Child1 | 1.26e-02 | 0.00e+00 | 5.70e-06 | 4.50e-06 | 1.96e-10 | 5.70e-06 |
| Infant2 | 1.26e-02 | 0.00e+00 | 7.02e-06 | 4.50e-06 | 2.41e-10 | 7.02e-06 |
| Infant1 | 1.26e-02 | 0.00e+00 | 7.45e-06 | 4.50e-06 | 2.55e-10 | 7.45e-06 |

Time to background concentration- chronic (hr):

Acute Inhalation Results:

| Receptor | Background Air ADR (mg/kg/d) | Gas Phase ADR (mg/kg/d) | Particulate Phase ADR (mg/kg/d) | Inhalation Total ADR (mg/kg/d) |
|----------|------------------------------|-------------------------|---------------------------------|--------------------------------|
| Adult | 3.19e-09 | 7.02e-04 | 2.40e-08 | 7.02e-04 |
| Youth2 | 3.98e-09 | 8.74e-04 | 2.98e-08 | 8.74e-04 |
| Youth1 | 4.65e-09 | 1.02e-03 | 3.49e-08 | 1.02e-03 |
| Child2 | 6.59e-09 | 1.45e-03 | 4.94e-08 | 1.45e-03 |
| Child1 | 9.46e-09 | 2.08e-03 | 7.10e-08 | 2.08e-03 |
| Infant2 | 1.16e-08 | 2.56e-03 | 8.73e-08 | 2.56e-03 |
| Infant1 | 1.24e-08 | 2.71e-03 | 9.27e-08 | 2.71e-03 |

Time to background concentration- acute (hr):

TCEP_foamother0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

TCEP_foamother0624: Ingestion Results

Chronic Ingestion Results:

| Receptor | Background Dust Chronic ADD (mg/kg/d) | Mouthing Chronic ADD (mg/kg/d) | Ingestion After Inhalation Chronic ADD (mg/kg/d) | Incidental Dust Chronic ADD (mg/kg/d) | Maximum Incidental Dust Chronic ADD (mg/kg/d) |
|----------|---------------------------------------|--------------------------------|--|---------------------------------------|---|
| Adult | 0.00E+00 | 0.00E+00 | 8.81E-12 | 1.05E-09 | 6.87E-03 |
| Youth2 | 0.00E+00 | 0.00E+00 | 1.10E-11 | 2.34E-09 | 1.53E-02 |
| Youth1 | 0.00E+00 | 0.00E+00 | 1.28E-11 | 2.95E-09 | 1.93E-02 |
| Child2 | 0.00E+00 | 1.07E-01 | 1.82E-11 | 5.26E-09 | 3.46E-02 |
| Child1 | 0.00E+00 | 1.83E-01 | 2.61E-11 | 1.50E-08 | 9.85E-02 |
| Infant2 | 0.00E+00 | 1.35E+00 | 3.21E-11 | 1.33E-08 | 8.72E-02 |
| Infant1 | 0.00E+00 | 2.56E+00 | 3.41E-11 | 1.07E-08 | 7.04E-02 |

Acute Ingestion Results:

| Receptor | Background Dust ADR (mg/kg/d) | Mouthing ADR (mg/kg/d) | Ingestion After Inhalation ADR (mg/kg/d) | Incidental Dust ADR (mg/kg/d) | Maximum Incidental Dust ADR (mg/kg/d) |
|----------|-------------------------------|------------------------|--|-------------------------------|---------------------------------------|
| Adult | 0.00E+00 | 0.00E+00 | 3.19E-09 | 2.44E-07 | 6.87E-03 |
| Youth2 | 0.00E+00 | 0.00E+00 | 3.98E-09 | 5.44E-07 | 1.53E-02 |
| Youth1 | 0.00E+00 | 0.00E+00 | 4.65E-09 | 6.86E-07 | 1.93E-02 |
| Child2 | 0.00E+00 | 1.07E-01 | 6.59E-09 | 1.23E-06 | 3.46E-02 |
| Child1 | 0.00E+00 | 1.83E-01 | 9.46E-09 | 3.49E-06 | 9.85E-02 |
| Infant2 | 0.00E+00 | 1.35E+00 | 1.16E-08 | 3.09E-06 | 8.72E-02 |
| Infant1 | 0.00E+00 | 2.56E+00 | 1.24E-08 | 2.50E-06 | 7.04E-02 |

TCEP_foamother0624 Full Analysis Results

Chemical: TCEP
Product/Article: Plastic articles: furniture (sofa, chairs, tables)
Use Environment: Residence - Living room
Scenario Description/Notes: Not provided

TCEP_foamother0624: Dermal Results

Chronic Dermal Results:

| Receptor | Skin Contact Chronic ADD (mg/kg/d) | Vapor to Skin Chronic ADD (mg/kg/d) | Skin Contact with Dust Chronic ADD (mg/kg/d) | Total Chronic ADD (mg/kg/d) |
|----------|------------------------------------|-------------------------------------|--|-----------------------------|
| Adult | 8.69E-04 | 9.40E-10 | 1.16E-07 | 8.69E-04 |
| Youth2 | 9.08E-04 | 9.82E-10 | 1.21E-07 | 9.08E-04 |
| Youth1 | 9.89E-04 | 1.07E-09 | 1.32E-07 | 9.89E-04 |
| Child2 | 1.20E-03 | 1.30E-09 | 1.60E-07 | 1.20E-03 |
| Child1 | 1.44E-03 | 1.56E-09 | 1.92E-07 | 1.44E-03 |
| Infant2 | 1.60E-03 | 1.73E-09 | 2.13E-07 | 1.60E-03 |
| Infant1 | 1.80E-03 | 1.95E-09 | 2.39E-07 | 1.80E-03 |

Acute Dermal Results:

| Receptor | Skin Contact ADR (mg/kg/d) | Vapor to Skin ADR (mg/kg/d) | Skin Contact with Dust ADR (mg/kg/d) | Total ADR (mg/kg/d) |
|----------|----------------------------|-----------------------------|--------------------------------------|---------------------|
| Adult | 8.69E-04 | 3.43E-07 | 2.69E-05 | 8.96E-04 |
| Youth2 | 9.08E-04 | 3.58E-07 | 2.81E-05 | 9.37E-04 |
| Youth1 | 9.89E-04 | 3.90E-07 | 3.06E-05 | 1.02E-03 |
| Child2 | 1.20E-03 | 4.73E-07 | 3.72E-05 | 1.24E-03 |
| Child1 | 1.44E-03 | 5.69E-07 | 4.47E-05 | 1.49E-03 |
| Infant2 | 1.60E-03 | 6.30E-07 | 4.95E-05 | 1.65E-03 |
| Infant1 | 1.80E-03 | 7.10E-07 | 5.58E-05 | 1.86E-03 |

TCEP_foamother0624 Full Analysis Results

Chemical: TCEP
Product/Article: Plastic articles: furniture (sofa, chairs, tables)
Use Environment: Residence - Living room
Scenario Description/Notes: Not provided

CEM Scenario Summary

Scenario Name and Definition

Scenario: TCEP_foamother0624
Chemical: TCEP
Product/Article: Plastic articles: furniture (sofa, chairs, tables)
Use Environment: Residence - Living room

Scenario Description/notes:

Models

Models for the Selected Product or Article:

- E6: Emission from Article Placed in Environment
- A_INH1: Calculation of Inhalation Dose from Article Exposure
- A_ING1: Ingestion after Inhalation (Article Model)
- A_ING2: Ingestion of Article Mouthed
- A_ING3: Incidental Dust Ingestion (Article Model)
- A_DER1: Dermal Dose from Direct Transfer from Vapor Phase to Skin
- A_DER2: Dermal Dose from Article where Skin Contact Occurs
- A_DER3: Dermal Dose from Skin Contact with Dust

Additional Article Parameters

Article Users: Adult Youth Child
Activity Pattern: SAH Part-time Full-time

Inputs

TCEP_foamother0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

| Location | Required Input | Value |
|--|---|----------|
| 1. Scenario | Background Air Concentration (mg/m3) | 0.00E+00 |
| 1. Scenario | Background Dust Concentration (ug/mg) | 0.00E+00 |
| 1. Scenario | Initial Concentration of SVOC in Article (mg/cm3) | 1.92E-01 |
| 1. Scenario | Weight Fraction of Chemical (-) | 6.40E-03 |
| 2. Inputs; a. Chemical Properties | Gas Phase Mass Transfer Coefficient (m/hr) | 1.87E+00 |
| 2. Inputs; a. Chemical Properties | Henry's Law Coefficient (atm/M) | 2.95E-06 |
| 2. Inputs; a. Chemical Properties | Log Octanol-air Partition Coefficient (-) | 7.86E+00 |
| 2. Inputs; a. Chemical Properties | Log Octanol-water partition coefficient (-) | 1.78E+00 |
| 2. Inputs; a. Chemical Properties | Molecular Weight (g/mol) | 2.85E+02 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Abraded Particle (m/hr): | 5.19E-01 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Dust (m/hr) | 9.70E-01 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Interior Surface (m/hr) | 8.79E-04 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, RP (m/hr) | 1.86E+00 |
| 2. Inputs; a. Chemical Properties | Saturation Concentration in Air (mg/m3) | 9.35E+02 |
| 2. Inputs; a. Chemical Properties | Solid-Air Partition Coefficient (-) | 6.33E+04 |
| 2. Inputs; a. Chemical Properties | Solid-Phase Diffusion Coefficient (m2/hr) | 3.47E-11 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, Abraded Particle(m3/mg) | 2.41E-02 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, Dust (m3/mg) | 7.24E-03 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, RP (m3/mg) | 2.90E-02 |
| 2. Inputs; a. Chemical Properties | Vapor Pressure (torr) | 6.10E-02 |
| 2. Inputs; a. Chemical Properties | Water Solubility (mg/mL) | 7.82E+00 |
| 2. Inputs; b. Product/Article Properties | Absorption Fraction, Acute (-) | 3.51E-01 |
| 2. Inputs; b. Product/Article Properties | Absorption Fraction, Chronic (-) | 3.51E-01 |
| 2. Inputs; b. Product/Article Properties | Adherence Factor (mg/cm2*event) | 4.00E-02 |
| 2. Inputs; b. Product/Article Properties | Area of Article Mouthed (cm2) | 5.00E+01 |
| 2. Inputs; b. Product/Article Properties | Average Molecule Diffusion per Contact (m) | 2.10E-04 |
| 2. Inputs; b. Product/Article Properties | Chemical Migration Rate (mg/cm2/hr) | 1.00E-01 |

TCEP_foamother0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

| | | |
|--|--|----------|
| 2. Inputs; b. Product/Article Properties | Density of Product/Article (g/cm ³) | 3.00E-02 |
| 2. Inputs; b. Product/Article Properties | Duration of Article Contact (min) | 3.80E+00 |
| 2. Inputs; b. Product/Article Properties | Frequency of Article Contact (events/day) | 4.00E+01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction - Dust (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction - TSP (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction, Abraded Particle (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Skin Permeability Coefficient (cm/hr) | 2.20E-03 |
| 2. Inputs; b. Product/Article Properties | Surface Area of Article (m ²) | 6.61E-01 |
| 2. Inputs; b. Product/Article Properties | Thickness of Article Surface Layer (m) | 1.00E-02 |
| 2. Inputs; b. Product/Article Properties | Transdermal Permeability Coefficient (m/hr) | 6.05E-04 |
| 2. Inputs; c. Environment Inputs | Abraded Particle Deposition Rate Constant (1/hr) | 2.34E+00 |
| 2. Inputs; c. Environment Inputs | Abraded Particle Resuspension Rate (1/hr) | 1.29E-04 |
| 2. Inputs; c. Environment Inputs | Ambient RP Concentration (mg/m ³) | 5.20E-02 |
| 2. Inputs; c. Environment Inputs | Area of Interior Surface (m ²) | 1.04E+02 |
| 2. Inputs; c. Environment Inputs | Cleaning Efficiency (-) | 4.60E-01 |
| 2. Inputs; c. Environment Inputs | Cleaning Frequency (per hour) | 6.00E-03 |
| 2. Inputs; c. Environment Inputs | Density of Particle, Dust (mg/m ³) | 2.00E+09 |
| 2. Inputs; c. Environment Inputs | Density of Particle, RP (mg/m ³) | 1.00E+09 |
| 2. Inputs; c. Environment Inputs | Deposition Rate, Dust (per hour) | 3.30E+00 |
| 2. Inputs; c. Environment Inputs | Deposition Rate, RP (per hour) | 1.00E+00 |
| 2. Inputs; c. Environment Inputs | Generation Rate of Abraded Particles (mg/hr) | 5.31E-03 |
| 2. Inputs; c. Environment Inputs | HVAC Filter Penetration for RP (-) | 5.00E-02 |
| 2. Inputs; c. Environment Inputs | Interzone Ventilation Rate (m ³ /hr) | 1.09E+02 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Floor Dust (mg/hr) | 2.53E+01 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Floor RP (mg/hr) | 0.00E+00 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Suspended Dust (mg/hr) | 1.18E+02 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Suspended RP (mg/hr) | 1.47E+01 |
| 2. Inputs; c. Environment Inputs | Radius of Abraded Particle (m) | 7.00E-05 |

TCEP_foamother0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

| | | |
|----------------------------------|-----------------------------------|----------|
| 2. Inputs; c. Environment Inputs | Radius of Particle, Dust (m) | 5.00E-04 |
| 2. Inputs; c. Environment Inputs | Radius of Particle, RP (m) | 5.00E-06 |
| 2. Inputs; c. Environment Inputs | Resuspension Rate, Dust (per day) | 2.10E-04 |
| 2. Inputs; c. Environment Inputs | Resuspension Rate, RP (per day) | 2.60E-05 |
| 2. Inputs; c. Environment Inputs | Thickness of Interior Surface (m) | 5.00E-03 |
| 2. Inputs; c. Environment Inputs | Use Environment Volume (m3) | 5.00E+01 |

Exposure Factors

| Receptor | Body Weight | Inhalation Rate After Use | Dust Ingest Rate | Surface Area to Body Weight | TC |
|-------------------------|-------------|---------------------------|------------------|-----------------------------|------|
| Adult (≥21 years) | 80 | 0.61 | 30 | 61.47 | 6800 |
| Youth (16-20 years) | 71.6 | 0.68 | 60 | 64.25 | 5576 |
| Youth (11-15 years) | 56.8 | 0.63 | 60 | 69.98 | 5576 |
| Child (6-10 years) | 31.8 | 0.5 | 60 | 84.91 | 3740 |
| Small Child (3-5 years) | 18.6 | 0.42 | 100 | 102.15 | 2652 |
| Infant (1-2 years) | 12.6 | 0.35 | 60 | 113.1 | 1972 |
| Infant (<1 year) | 7.8 | 0.23 | 30 | 127.39 | 1564 |

Notes: body weight = kg; dust ingest rate = mg/day; inhalation rate after use = m3/hr; surface area to body weight ratio = m2/kg; transfer coefficient(TC) = cm2/hr

| Receptor | Mouthing Dur | Exposure Dur-Chronic | Exposure Dur-Acute | Avg Time-Chronic | Avg Time-Acute |
|-------------------------|--------------|----------------------|--------------------|------------------|----------------|
| Adult (≥21 years) | 0 | 1 | 1 | 1 | 1 |
| Youth (16-20 years) | 0 | 1 | 1 | 1 | 1 |
| Youth (11-15 years) | 0 | 1 | 1 | 1 | 1 |
| Child (6-10 years) | 1.7 | 1 | 1 | 1 | 1 |
| Small Child (3-5 years) | 1.7 | 1 | 1 | 1 | 1 |
| Infant (1-2 years) | 8.5 | 1 | 1 | 1 | 1 |
| Infant (<1 year) | 10 | 1 | 1 | 1 | 1 |

Notes: mouthing duration = min/hr; averaging time - chronic = years; averaging time - acute = days; exposure duration - chronic = years; averaging time - acute = days

TCEP_autofoam0620 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Automobile
 Scenario Description/Notes: Not provided

TCEP_autofoam0620: Combined Analysis Results

| Receptor | Inhalation | | Ingestion | | Dermal | | Total | |
|---------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|
| | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) |
| Lifetime_LADD | 0.00E+00 | 1.03E-06 | 0.00E+00 | 1.63E-02 | 0.00E+00 | 6.19E-03 | 0.00E+00 | 2.25E-02 |
| Adult | 2.90E-04 | 7.95E-07 | 2.82E-07 | 9.01E-10 | 5.65E-03 | 5.65E-03 | 5.94E-03 | 5.65E-03 |
| Youth2 | 3.61E-04 | 9.90E-07 | 4.24E-07 | 1.44E-09 | 5.91E-03 | 5.90E-03 | 6.27E-03 | 5.90E-03 |
| Youth1 | 4.21E-04 | 1.16E-06 | 5.10E-07 | 1.75E-09 | 6.43E-03 | 6.43E-03 | 6.85E-03 | 6.43E-03 |
| Child2 | 5.97E-04 | 1.64E-06 | 2.14E-02 | 2.14E-02 | 7.80E-03 | 7.80E-03 | 2.98E-02 | 2.92E-02 |
| Child1 | 8.57E-04 | 2.35E-06 | 3.66E-02 | 3.66E-02 | 9.39E-03 | 9.38E-03 | 4.68E-02 | 4.59E-02 |
| Infant2 | 1.05E-03 | 2.89E-06 | 2.70E-01 | 2.70E-01 | 1.04E-02 | 1.04E-02 | 2.81E-01 | 2.80E-01 |
| Infant1 | 1.12E-03 | 3.07E-06 | 5.13E-01 | 5.13E-01 | 1.17E-02 | 1.17E-02 | 5.26E-01 | 5.25E-01 |

TCEP_autofoam0620 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Automobile
 Scenario Description/Notes: Not provided

TCEP_autofoam0620: Inhalation Results

Chronic Inhalation Results:

| Receptor | Steady-State Air SVOC Conc (ug/m3) | Background Air Chronic ADD (mg/kg-d) | Gas Phase Chronic ADD (mg/kg-d) | Steady-State RP SVOC Conc (ug/mg) | Particulate Phase Chronic ADD (mg/kg/d) | Inhalation Total Chronic ADD (mg/kg/d) |
|----------|------------------------------------|--------------------------------------|---------------------------------|-----------------------------------|---|--|
| Adult | 1.04e-01 | 0.00e+00 | 7.94e-07 | 2.43e-05 | 2.17e-10 | 7.95e-07 |
| Youth2 | 1.04e-01 | 0.00e+00 | 9.89e-07 | 2.43e-05 | 2.70e-10 | 9.90e-07 |
| Youth1 | 1.04e-01 | 0.00e+00 | 1.16e-06 | 2.43e-05 | 3.15e-10 | 1.16e-06 |
| Child2 | 1.04e-01 | 0.00e+00 | 1.64e-06 | 2.43e-05 | 4.47e-10 | 1.64e-06 |
| Child1 | 1.04e-01 | 0.00e+00 | 2.35e-06 | 2.43e-05 | 6.42e-10 | 2.35e-06 |
| Infant2 | 1.04e-01 | 0.00e+00 | 2.89e-06 | 2.43e-05 | 7.90e-10 | 2.89e-06 |
| Infant1 | 1.04e-01 | 0.00e+00 | 3.07e-06 | 2.43e-05 | 8.39e-10 | 3.07e-06 |

Time to background concentration- chronic (hr):

Acute Inhalation Results:

| Receptor | Background Air ADR (mg/kg/d) | Gas Phase ADR (mg/kg/d) | Particulate Phase ADR (mg/kg/d) | Inhalation Total ADR (mg/kg/d) |
|----------|------------------------------|-------------------------|---------------------------------|--------------------------------|
| Adult | 2.09e-07 | 2.89e-04 | 7.84e-08 | 2.90e-04 |
| Youth2 | 2.60e-07 | 3.61e-04 | 9.77e-08 | 3.61e-04 |
| Youth1 | 3.04e-07 | 4.21e-04 | 1.14e-07 | 4.21e-04 |
| Child2 | 4.31e-07 | 5.97e-04 | 1.62e-07 | 5.97e-04 |
| Child1 | 6.19e-07 | 8.57e-04 | 2.32e-07 | 8.57e-04 |
| Infant2 | 7.62e-07 | 1.05e-03 | 2.86e-07 | 1.05e-03 |
| Infant1 | 8.09e-07 | 1.12e-03 | 3.03e-07 | 1.12e-03 |

Time to background concentration- acute (hr):

TCEP_autofoam0620 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Automobile
 Scenario Description/Notes: Not provided

TCEP_autofoam0620: Ingestion Results

Chronic Ingestion Results:

| Receptor | Background Dust Chronic ADD (mg/kg/d) | Mouthing Chronic ADD (mg/kg/d) | Ingestion After Inhalation Chronic ADD (mg/kg/d) | Incidental Dust Chronic ADD (mg/kg/d) | Maximum Incidental Dust Chronic ADD (mg/kg/d) |
|----------|---------------------------------------|--------------------------------|--|---------------------------------------|---|
| Adult | 0.00E+00 | 0.00E+00 | 5.78E-10 | 3.22E-10 | 3.97E-04 |
| Youth2 | 0.00E+00 | 0.00E+00 | 7.20E-10 | 7.20E-10 | 8.87E-04 |
| Youth1 | 0.00E+00 | 0.00E+00 | 8.41E-10 | 9.08E-10 | 1.12E-03 |
| Child2 | 0.00E+00 | 2.14E-02 | 1.19E-09 | 1.62E-09 | 2.00E-03 |
| Child1 | 0.00E+00 | 3.66E-02 | 1.71E-09 | 4.62E-09 | 5.69E-03 |
| Infant2 | 0.00E+00 | 2.70E-01 | 2.11E-09 | 4.09E-09 | 5.04E-03 |
| Infant1 | 0.00E+00 | 5.13E-01 | 2.24E-09 | 3.30E-09 | 4.07E-03 |

Acute Ingestion Results:

| Receptor | Background Dust ADR (mg/kg/d) | Mouthing ADR (mg/kg/d) | Ingestion After Inhalation ADR (mg/kg/d) | Incidental Dust ADR (mg/kg/d) | Maximum Incidental Dust ADR (mg/kg/d) |
|----------|-------------------------------|------------------------|--|-------------------------------|---------------------------------------|
| Adult | 0.00E+00 | 0.00E+00 | 2.09E-07 | 7.31E-08 | 3.97E-04 |
| Youth2 | 0.00E+00 | 0.00E+00 | 2.60E-07 | 1.63E-07 | 8.87E-04 |
| Youth1 | 0.00E+00 | 0.00E+00 | 3.04E-07 | 2.06E-07 | 1.12E-03 |
| Child2 | 0.00E+00 | 2.14E-02 | 4.31E-07 | 3.68E-07 | 2.00E-03 |
| Child1 | 0.00E+00 | 3.66E-02 | 6.19E-07 | 1.05E-06 | 5.69E-03 |
| Infant2 | 0.00E+00 | 2.70E-01 | 7.62E-07 | 9.29E-07 | 5.04E-03 |
| Infant1 | 0.00E+00 | 5.13E-01 | 8.09E-07 | 7.50E-07 | 4.07E-03 |

TCEP_autofoam0620 Full Analysis Results

Chemical: TCEP
Product/Article: Plastic articles: furniture (sofa, chairs, tables)
Use Environment: Automobile
Scenario Description/Notes: Not provided

TCEP_autofoam0620: Dermal Results

Chronic Dermal Results:

| Receptor | Skin Contact Chronic ADD (mg/kg/d) | Vapor to Skin Chronic ADD (mg/kg/d) | Skin Contact with Dust Chronic ADD (mg/kg/d) | Total Chronic ADD (mg/kg/d) |
|----------|------------------------------------|-------------------------------------|--|-----------------------------|
| Adult | 5.65E-03 | 3.88E-10 | 1.78E-08 | 5.65E-03 |
| Youth2 | 5.90E-03 | 4.05E-10 | 1.86E-08 | 5.90E-03 |
| Youth1 | 6.43E-03 | 4.41E-10 | 2.03E-08 | 6.43E-03 |
| Child2 | 7.80E-03 | 5.35E-10 | 2.46E-08 | 7.80E-03 |
| Child1 | 9.38E-03 | 6.44E-10 | 2.96E-08 | 9.38E-03 |
| Infant2 | 1.04E-02 | 7.13E-10 | 3.27E-08 | 1.04E-02 |
| Infant1 | 1.17E-02 | 8.03E-10 | 3.69E-08 | 1.17E-02 |

Acute Dermal Results:

| Receptor | Skin Contact ADR (mg/kg/d) | Vapor to Skin ADR (mg/kg/d) | Skin Contact with Dust ADR (mg/kg/d) | Total ADR (mg/kg/d) |
|----------|----------------------------|-----------------------------|--------------------------------------|---------------------|
| Adult | 5.65E-03 | 1.41E-07 | 4.04E-06 | 5.65E-03 |
| Youth2 | 5.90E-03 | 1.48E-07 | 4.22E-06 | 5.91E-03 |
| Youth1 | 6.43E-03 | 1.61E-07 | 4.60E-06 | 6.43E-03 |
| Child2 | 7.80E-03 | 1.95E-07 | 5.58E-06 | 7.80E-03 |
| Child1 | 9.38E-03 | 2.35E-07 | 6.71E-06 | 9.39E-03 |
| Infant2 | 1.04E-02 | 2.60E-07 | 7.43E-06 | 1.04E-02 |
| Infant1 | 1.17E-02 | 2.93E-07 | 8.37E-06 | 1.17E-02 |

TCEP_autofoam0620 Full Analysis Results

Chemical: TCEP
Product/Article: Plastic articles: furniture (sofa, chairs, tables)
Use Environment: Automobile
Scenario Description/Notes: Not provided

CEM Scenario Summary

Scenario Name and Definition

Scenario: TCEP_autofoam0620
Chemical: TCEP
Product/Article: Plastic articles: furniture (sofa, chairs, tables)
Use Environment: Automobile
Scenario Description/notes:

Models

Models for the Selected Product or Article:

- E6: Emission from Article Placed in Environment
- A_INH1: Calculation of Inhalation Dose from Article Exposure
- A_ING1: Ingestion after Inhalation (Article Model)
- A_ING2: Ingestion of Article Mouthed
- A_ING3: Incidental Dust Ingestion (Article Model)
- A_DER1: Dermal Dose from Direct Transfer from Vapor Phase to Skin
- A_DER2: Dermal Dose from Article where Skin Contact Occurs
- A_DER3: Dermal Dose from Skin Contact with Dust

Additional Article Parameters

Article Users: Adult Youth Child
Activity Pattern: SAH Part-time Full-time

Inputs

TCEP_autofoam0620 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Automobile
 Scenario Description/Notes: Not provided

| Location | Required Input | Value |
|--|---|----------|
| 1. Scenario | Background Air Concentration (mg/m3) | 0.00E+00 |
| 1. Scenario | Background Dust Concentration (ug/mg) | 0.00E+00 |
| 1. Scenario | Initial Concentration of SVOC in Article (mg/cm3) | 2.22E-01 |
| 1. Scenario | Weight Fraction of Chemical (-) | 7.40E-03 |
| 2. Inputs; a. Chemical Properties | Gas Phase Mass Transfer Coefficient (m/hr) | 1.87E+00 |
| 2. Inputs; a. Chemical Properties | Henry's Law Coefficient (atm/M) | 2.95E-06 |
| 2. Inputs; a. Chemical Properties | Log Octanol-air Partition Coefficient (-) | 7.86E+00 |
| 2. Inputs; a. Chemical Properties | Log Octanol-water partition coefficient (-) | 1.78E+00 |
| 2. Inputs; a. Chemical Properties | Molecular Weight (g/mol) | 2.85E+02 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Abraded Particle (m/hr): | 5.19E-01 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Dust (m/hr) | 9.70E-01 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Interior Surface (m/hr) | 8.79E-04 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, RP (m/hr) | 1.86E+00 |
| 2. Inputs; a. Chemical Properties | Saturation Concentration in Air (mg/m3) | 9.35E+02 |
| 2. Inputs; a. Chemical Properties | Solid-Air Partition Coefficient (-) | 6.33E+04 |
| 2. Inputs; a. Chemical Properties | Solid-Phase Diffusion Coefficient (m2/hr) | 3.47E-11 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, Abraded Particle(m3/mg) | 2.41E-02 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, Dust (m3/mg) | 7.24E-03 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, RP (m3/mg) | 2.90E-02 |
| 2. Inputs; a. Chemical Properties | Vapor Pressure (torr) | 6.10E-02 |
| 2. Inputs; a. Chemical Properties | Water Solubility (mg/mL) | 7.82E+00 |
| 2. Inputs; b. Product/Article Properties | Absorption Fraction, Acute (-) | 3.51E-01 |
| 2. Inputs; b. Product/Article Properties | Absorption Fraction, Chronic (-) | 3.51E-01 |
| 2. Inputs; b. Product/Article Properties | Adherence Factor (mg/cm2*event) | 4.00E-02 |
| 2. Inputs; b. Product/Article Properties | Area of Article Mouthed (cm2) | 1.00E+01 |
| 2. Inputs; b. Product/Article Properties | Average Molecule Diffusion per Contact (m) | 1.18E-03 |
| 2. Inputs; b. Product/Article Properties | Chemical Migration Rate (mg/cm2/hr) | 1.00E-01 |

TCEP_autofoam0620 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Automobile
 Scenario Description/Notes: Not provided

| | | |
|--|--|----------|
| 2. Inputs; b. Product/Article Properties | Density of Product/Article (g/cm ³) | 3.00E-02 |
| 2. Inputs; b. Product/Article Properties | Duration of Article Contact (min) | 1.20E+02 |
| 2. Inputs; b. Product/Article Properties | Frequency of Article Contact (events/day) | 1.00E+00 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction - Dust (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction - TSP (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction, Abraded Particle (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Skin Permeability Coefficient (cm/hr) | 2.20E-03 |
| 2. Inputs; b. Product/Article Properties | Surface Area of Article (m ²) | 4.23E-01 |
| 2. Inputs; b. Product/Article Properties | Thickness of Article Surface Layer (m) | 1.00E-02 |
| 2. Inputs; b. Product/Article Properties | Transdermal Permeability Coefficient (m/hr) | 6.05E-04 |
| 2. Inputs; c. Environment Inputs | Abraded Particle Deposition Rate Constant (1/hr) | 2.34E+00 |
| 2. Inputs; c. Environment Inputs | Abraded Particle Resuspension Rate (1/hr) | 1.29E-04 |
| 2. Inputs; c. Environment Inputs | Ambient RP Concentration (mg/m ³) | 5.20E-02 |
| 2. Inputs; c. Environment Inputs | Area of Interior Surface (m ²) | 4.99E+00 |
| 2. Inputs; c. Environment Inputs | Cleaning Efficiency (-) | 4.60E-01 |
| 2. Inputs; c. Environment Inputs | Cleaning Frequency (per hour) | 6.00E-03 |
| 2. Inputs; c. Environment Inputs | Density of Particle, Dust (mg/m ³) | 2.00E+09 |
| 2. Inputs; c. Environment Inputs | Density of Particle, RP (mg/m ³) | 1.00E+09 |
| 2. Inputs; c. Environment Inputs | Deposition Rate, Dust (per hour) | 3.30E+00 |
| 2. Inputs; c. Environment Inputs | Deposition Rate, RP (per hour) | 1.00E+00 |
| 2. Inputs; c. Environment Inputs | Generation Rate of Abraded Particles (mg/hr) | 5.31E-03 |
| 2. Inputs; c. Environment Inputs | HVAC Filter Penetration for RP (-) | 5.00E-02 |
| 2. Inputs; c. Environment Inputs | Interzone Ventilation Rate (m ³ /hr) | 9.49E+00 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Floor Dust (mg/hr) | 2.53E+01 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Floor RP (mg/hr) | 0.00E+00 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Suspended Dust (mg/hr) | 1.18E+02 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Suspended RP (mg/hr) | 1.47E+01 |
| 2. Inputs; c. Environment Inputs | Radius of Abraded Particle (m) | 7.00E-05 |

TCEP_autofoam0620 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Automobile
 Scenario Description/Notes: Not provided

| | | |
|----------------------------------|-----------------------------------|----------|
| 2. Inputs; c. Environment Inputs | Radius of Particle, Dust (m) | 5.00E-04 |
| 2. Inputs; c. Environment Inputs | Radius of Particle, RP (m) | 5.00E-06 |
| 2. Inputs; c. Environment Inputs | Resuspension Rate, Dust (per day) | 2.10E-04 |
| 2. Inputs; c. Environment Inputs | Resuspension Rate, RP (per day) | 2.60E-05 |
| 2. Inputs; c. Environment Inputs | Thickness of Interior Surface (m) | 5.00E-03 |
| 2. Inputs; c. Environment Inputs | Use Environment Volume (m3) | 2.40E+00 |

Exposure Factors

| Receptor | Body Weight | Inhalation Rate After Use | Dust Ingest Rate | Surface Area to Body Weight | TC |
|-------------------------|-------------|---------------------------|------------------|-----------------------------|------|
| Adult (≥21 years) | 80 | 0.61 | 30 | 61.47 | 6800 |
| Youth (16-20 years) | 71.6 | 0.68 | 60 | 64.25 | 5576 |
| Youth (11-15 years) | 56.8 | 0.63 | 60 | 69.98 | 5576 |
| Child (6-10 years) | 31.8 | 0.5 | 60 | 84.91 | 3740 |
| Small Child (3-5 years) | 18.6 | 0.42 | 100 | 102.15 | 2652 |
| Infant (1-2 years) | 12.6 | 0.35 | 60 | 113.1 | 1972 |
| Infant (<1 year) | 7.8 | 0.23 | 30 | 127.39 | 1564 |

Notes: body weight = kg; dust ingest rate = mg/day; inhalation rate after use = m3/hr; surface area to body weight ratio = m2/kg; transfer coefficient(TC) = cm2/hr

| Receptor | Mouthing Dur | Exposure Dur-Chronic | Exposure Dur-Acute | Avg Time-Chronic | Avg Time-Acute |
|-------------------------|--------------|----------------------|--------------------|------------------|----------------|
| Adult (≥21 years) | 0 | 1 | 1 | 1 | 1 |
| Youth (16-20 years) | 0 | 1 | 1 | 1 | 1 |
| Youth (11-15 years) | 0 | 1 | 1 | 1 | 1 |
| Child (6-10 years) | 1.7 | 1 | 1 | 1 | 1 |
| Small Child (3-5 years) | 1.7 | 1 | 1 | 1 | 1 |
| Infant (1-2 years) | 8.5 | 1 | 1 | 1 | 1 |
| Infant (<1 year) | 10 | 1 | 1 | 1 | 1 |

Notes: mouthing duration = min/hr; averaging time - chronic = years; averaging time - acute = days; exposure duration - chronic = years; averaging time - acute = days

TCEP_livfoam0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

TCEP_livfoam0624: Combined Analysis Results

| Receptor | Inhalation | | Ingestion | | Dermal | | Total | |
|---------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|
| | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) |
| Lifetime_LADD | 0.00E+00 | 1.84E-06 | 0.00E+00 | 1.63E-02 | 0.00E+00 | 1.38E-02 | 0.00E+00 | 3.01E-02 |
| Adult | 5.19E-04 | 1.42E-06 | 1.86E-07 | 7.90E-10 | 1.26E-02 | 1.26E-02 | 1.31E-02 | 1.26E-02 |
| Youth2 | 6.47E-04 | 1.77E-06 | 4.14E-07 | 1.76E-09 | 1.32E-02 | 1.32E-02 | 1.38E-02 | 1.32E-02 |
| Youth1 | 7.56E-04 | 2.07E-06 | 5.21E-07 | 2.22E-09 | 1.44E-02 | 1.44E-02 | 1.51E-02 | 1.44E-02 |
| Child2 | 1.07E-03 | 2.94E-06 | 2.14E-02 | 2.14E-02 | 1.74E-02 | 1.74E-02 | 3.99E-02 | 3.88E-02 |
| Child1 | 1.54E-03 | 4.22E-06 | 3.66E-02 | 3.66E-02 | 2.10E-02 | 2.10E-02 | 5.91E-02 | 5.75E-02 |
| Infant2 | 1.89E-03 | 5.19E-06 | 2.70E-01 | 2.70E-01 | 2.32E-02 | 2.32E-02 | 2.95E-01 | 2.93E-01 |
| Infant1 | 2.01E-03 | 5.51E-06 | 5.13E-01 | 5.13E-01 | 2.62E-02 | 2.62E-02 | 5.41E-01 | 5.39E-01 |

TCEP_livfoam0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

TCEP_livfoam0624: Inhalation Results

Chronic Inhalation Results:

| Receptor | Steady-State Air SVOC Conc (ug/m3) | Background Air Chronic ADD (mg/kg-d) | Gas Phase Chronic ADD (mg/kg-d) | Steady-State RP SVOC Conc (ug/mg) | Particulate Phase Chronic ADD (mg/kg/d) | Inhalation Total Chronic ADD (mg/kg/d) |
|----------|------------------------------------|--------------------------------------|---------------------------------|-----------------------------------|---|--|
| Adult | 9.34e-03 | 0.00e+00 | 1.42e-06 | 3.33e-06 | 5.18e-11 | 1.42e-06 |
| Youth2 | 9.34e-03 | 0.00e+00 | 1.77e-06 | 3.33e-06 | 6.45e-11 | 1.77e-06 |
| Youth1 | 9.34e-03 | 0.00e+00 | 2.07e-06 | 3.33e-06 | 7.53e-11 | 2.07e-06 |
| Child2 | 9.34e-03 | 0.00e+00 | 2.94e-06 | 3.33e-06 | 1.07e-10 | 2.94e-06 |
| Child1 | 9.34e-03 | 0.00e+00 | 4.22e-06 | 3.33e-06 | 1.53e-10 | 4.22e-06 |
| Infant2 | 9.34e-03 | 0.00e+00 | 5.19e-06 | 3.33e-06 | 1.89e-10 | 5.19e-06 |
| Infant1 | 9.34e-03 | 0.00e+00 | 5.51e-06 | 3.33e-06 | 2.00e-10 | 5.51e-06 |

Time to background concentration- chronic (hr):

Acute Inhalation Results:

| Receptor | Background Air ADR (mg/kg/d) | Gas Phase ADR (mg/kg/d) | Particulate Phase ADR (mg/kg/d) | Inhalation Total ADR (mg/kg/d) |
|----------|------------------------------|-------------------------|---------------------------------|--------------------------------|
| Adult | 2.50e-09 | 5.19e-04 | 1.88e-08 | 5.19e-04 |
| Youth2 | 3.12e-09 | 6.47e-04 | 2.34e-08 | 6.47e-04 |
| Youth1 | 3.64e-09 | 7.56e-04 | 2.73e-08 | 7.56e-04 |
| Child2 | 5.16e-09 | 1.07e-03 | 3.87e-08 | 1.07e-03 |
| Child1 | 7.42e-09 | 1.54e-03 | 5.56e-08 | 1.54e-03 |
| Infant2 | 9.12e-09 | 1.89e-03 | 6.84e-08 | 1.89e-03 |
| Infant1 | 9.69e-09 | 2.01e-03 | 7.26e-08 | 2.01e-03 |

Time to background concentration- acute (hr):

TCEP_livfoam0624 Full Analysis Results

Chemical: TCEP
Product/Article: Plastic articles: furniture (sofa, chairs, tables)
Use Environment: Residence - Living room
Scenario Description/Notes: Not provided

TCEP_livfoam0624: Ingestion Results

Chronic Ingestion Results:

| Receptor | Background Dust Chronic ADD (mg/kg/d) | Mouthing Chronic ADD (mg/kg/d) | Ingestion After Inhalation Chronic ADD (mg/kg/d) | Incidental Dust Chronic ADD (mg/kg/d) | Maximum Incidental Dust Chronic ADD (mg/kg/d) |
|----------|---------------------------------------|--------------------------------|--|---------------------------------------|---|
| Adult | 0.00E+00 | 0.00E+00 | 6.90E-12 | 7.84E-10 | 7.94E-03 |
| Youth2 | 0.00E+00 | 0.00E+00 | 8.60E-12 | 1.75E-09 | 1.77E-02 |
| Youth1 | 0.00E+00 | 0.00E+00 | 1.00E-11 | 2.21E-09 | 2.24E-02 |
| Child2 | 0.00E+00 | 2.14E-02 | 1.42E-11 | 3.94E-09 | 4.00E-02 |
| Child1 | 0.00E+00 | 3.66E-02 | 2.04E-11 | 1.12E-08 | 1.14E-01 |
| Infant2 | 0.00E+00 | 2.70E-01 | 2.51E-11 | 9.95E-09 | 1.01E-01 |
| Infant1 | 0.00E+00 | 5.13E-01 | 2.67E-11 | 8.04E-09 | 8.14E-02 |

Acute Ingestion Results:

| Receptor | Background Dust ADR (mg/kg/d) | Mouthing ADR (mg/kg/d) | Ingestion After Inhalation ADR (mg/kg/d) | Incidental Dust ADR (mg/kg/d) | Maximum Incidental Dust ADR (mg/kg/d) |
|----------|-------------------------------|------------------------|--|-------------------------------|---------------------------------------|
| Adult | 0.00E+00 | 0.00E+00 | 2.50E-09 | 1.84E-07 | 7.94E-03 |
| Youth2 | 0.00E+00 | 0.00E+00 | 3.12E-09 | 4.10E-07 | 1.77E-02 |
| Youth1 | 0.00E+00 | 0.00E+00 | 3.64E-09 | 5.17E-07 | 2.24E-02 |
| Child2 | 0.00E+00 | 2.14E-02 | 5.16E-09 | 9.24E-07 | 4.00E-02 |
| Child1 | 0.00E+00 | 3.66E-02 | 7.42E-09 | 2.63E-06 | 1.14E-01 |
| Infant2 | 0.00E+00 | 2.70E-01 | 9.12E-09 | 2.33E-06 | 1.01E-01 |
| Infant1 | 0.00E+00 | 5.13E-01 | 9.69E-09 | 1.88E-06 | 8.14E-02 |

TCEP_livfoam0624 Full Analysis Results

Chemical: TCEP
Product/Article: Plastic articles: furniture (sofa, chairs, tables)
Use Environment: Residence - Living room
Scenario Description/Notes: Not provided

TCEP_livfoam0624: Dermal Results

Chronic Dermal Results:

| Receptor | Skin Contact Chronic ADD (mg/kg/d) | Vapor to Skin Chronic ADD (mg/kg/d) | Skin Contact with Dust Chronic ADD (mg/kg/d) | Total Chronic ADD (mg/kg/d) |
|----------|------------------------------------|-------------------------------------|--|-----------------------------|
| Adult | 1.26E-02 | 6.95E-10 | 2.16E-08 | 1.26E-02 |
| Youth2 | 1.32E-02 | 7.27E-10 | 2.26E-08 | 1.32E-02 |
| Youth1 | 1.44E-02 | 7.92E-10 | 2.46E-08 | 1.44E-02 |
| Child2 | 1.74E-02 | 9.61E-10 | 2.99E-08 | 1.74E-02 |
| Child1 | 2.10E-02 | 1.16E-09 | 3.60E-08 | 2.10E-02 |
| Infant2 | 2.32E-02 | 1.28E-09 | 3.98E-08 | 2.32E-02 |
| Infant1 | 2.62E-02 | 1.44E-09 | 4.48E-08 | 2.62E-02 |

Acute Dermal Results:

| Receptor | Skin Contact ADR (mg/kg/d) | Vapor to Skin ADR (mg/kg/d) | Skin Contact with Dust ADR (mg/kg/d) | Total ADR (mg/kg/d) |
|----------|----------------------------|-----------------------------|--------------------------------------|---------------------|
| Adult | 1.26E-02 | 2.54E-07 | 5.07E-06 | 1.26E-02 |
| Youth2 | 1.32E-02 | 2.65E-07 | 5.30E-06 | 1.32E-02 |
| Youth1 | 1.44E-02 | 2.89E-07 | 5.78E-06 | 1.44E-02 |
| Child2 | 1.74E-02 | 3.50E-07 | 7.01E-06 | 1.74E-02 |
| Child1 | 2.10E-02 | 4.21E-07 | 8.43E-06 | 2.10E-02 |
| Infant2 | 2.32E-02 | 4.66E-07 | 9.33E-06 | 2.32E-02 |
| Infant1 | 2.62E-02 | 5.25E-07 | 1.05E-05 | 2.62E-02 |

TCEP_livfoam0624 Full Analysis Results

Chemical: TCEP
Product/Article: Plastic articles: furniture (sofa, chairs, tables)
Use Environment: Residence - Living room
Scenario Description/Notes: Not provided

CEM Scenario Summary

Scenario Name and Definition

Scenario: TCEP_livfoam0624
Chemical: TCEP
Product/Article: Plastic articles: furniture (sofa, chairs, tables)
Use Environment: Residence - Living room

Scenario Description/notes:

Models

Models for the Selected Product or Article:

- E6: Emission from Article Placed in Environment
- A_INH1: Calculation of Inhalation Dose from Article Exposure
- A_ING1: Ingestion after Inhalation (Article Model)
- A_ING2: Ingestion of Article Mouthed
- A_ING3: Incidental Dust Ingestion (Article Model)
- A_DER1: Dermal Dose from Direct Transfer from Vapor Phase to Skin
- A_DER2: Dermal Dose from Article where Skin Contact Occurs
- A_DER3: Dermal Dose from Skin Contact with Dust

Additional Article Parameters

Article Users: Adult Youth Child
Activity Pattern: SAH Part-time Full-time

Inputs

TCEP_livfoam0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

| Location | Required Input | Value |
|--|---|----------|
| 1. Scenario | Background Air Concentration (mg/m3) | 0.00E+00 |
| 1. Scenario | Background Dust Concentration (ug/mg) | 0.00E+00 |
| 1. Scenario | Initial Concentration of SVOC in Article (mg/cm3) | 2.22E-01 |
| 1. Scenario | Weight Fraction of Chemical (-) | 7.40E-03 |
| 2. Inputs; a. Chemical Properties | Gas Phase Mass Transfer Coefficient (m/hr) | 1.87E+00 |
| 2. Inputs; a. Chemical Properties | Henry's Law Coefficient (atm/M) | 2.95E-06 |
| 2. Inputs; a. Chemical Properties | Log Octanol-air Partition Coefficient (-) | 7.86E+00 |
| 2. Inputs; a. Chemical Properties | Log Octanol-water partition coefficient (-) | 1.78E+00 |
| 2. Inputs; a. Chemical Properties | Molecular Weight (g/mol) | 2.85E+02 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Abraded Particle (m/hr): | 5.19E-01 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Dust (m/hr) | 9.70E-01 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Interior Surface (m/hr) | 8.79E-04 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, RP (m/hr) | 1.86E+00 |
| 2. Inputs; a. Chemical Properties | Saturation Concentration in Air (mg/m3) | 9.35E+02 |
| 2. Inputs; a. Chemical Properties | Solid-Air Partition Coefficient (-) | 6.33E+04 |
| 2. Inputs; a. Chemical Properties | Solid-Phase Diffusion Coefficient (m2/hr) | 3.47E-11 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, Abraded Particle(m3/mg) | 2.41E-02 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, Dust (m3/mg) | 7.24E-03 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, RP (m3/mg) | 2.90E-02 |
| 2. Inputs; a. Chemical Properties | Vapor Pressure (torr) | 6.10E-02 |
| 2. Inputs; a. Chemical Properties | Water Solubility (mg/mL) | 7.82E+00 |
| 2. Inputs; b. Product/Article Properties | Absorption Fraction, Acute (-) | 3.51E-01 |
| 2. Inputs; b. Product/Article Properties | Absorption Fraction, Chronic (-) | 3.51E-01 |
| 2. Inputs; b. Product/Article Properties | Adherence Factor (mg/cm2*event) | 4.00E-02 |
| 2. Inputs; b. Product/Article Properties | Area of Article Mouthed (cm2) | 1.00E+01 |
| 2. Inputs; b. Product/Article Properties | Average Molecule Diffusion per Contact (m) | 2.64E-03 |
| 2. Inputs; b. Product/Article Properties | Chemical Migration Rate (mg/cm2/hr) | 1.00E-01 |

TCEP_livfoam0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

| | | |
|--|--|----------|
| 2. Inputs; b. Product/Article Properties | Density of Product/Article (g/cm ³) | 3.00E-02 |
| 2. Inputs; b. Product/Article Properties | Duration of Article Contact (min) | 6.00E+02 |
| 2. Inputs; b. Product/Article Properties | Frequency of Article Contact (events/day) | 1.00E+01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction - Dust (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction - TSP (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction, Abraded Particle (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Skin Permeability Coefficient (cm/hr) | 2.20E-03 |
| 2. Inputs; b. Product/Article Properties | Surface Area of Article (m ²) | 4.23E-01 |
| 2. Inputs; b. Product/Article Properties | Thickness of Article Surface Layer (m) | 1.00E-02 |
| 2. Inputs; b. Product/Article Properties | Transdermal Permeability Coefficient (m/hr) | 6.05E-04 |
| 2. Inputs; c. Environment Inputs | Abraded Particle Deposition Rate Constant (1/hr) | 2.34E+00 |
| 2. Inputs; c. Environment Inputs | Abraded Particle Resuspension Rate (1/hr) | 1.29E-04 |
| 2. Inputs; c. Environment Inputs | Ambient RP Concentration (mg/m ³) | 5.20E-02 |
| 2. Inputs; c. Environment Inputs | Area of Interior Surface (m ²) | 1.04E+02 |
| 2. Inputs; c. Environment Inputs | Cleaning Efficiency (-) | 4.60E-01 |
| 2. Inputs; c. Environment Inputs | Cleaning Frequency (per hour) | 6.00E-03 |
| 2. Inputs; c. Environment Inputs | Density of Particle, Dust (mg/m ³) | 2.00E+09 |
| 2. Inputs; c. Environment Inputs | Density of Particle, RP (mg/m ³) | 1.00E+09 |
| 2. Inputs; c. Environment Inputs | Deposition Rate, Dust (per hour) | 3.30E+00 |
| 2. Inputs; c. Environment Inputs | Deposition Rate, RP (per hour) | 1.00E+00 |
| 2. Inputs; c. Environment Inputs | Generation Rate of Abraded Particles (mg/hr) | 5.31E-03 |
| 2. Inputs; c. Environment Inputs | HVAC Filter Penetration for RP (-) | 5.00E-02 |
| 2. Inputs; c. Environment Inputs | Interzone Ventilation Rate (m ³ /hr) | 1.09E+02 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Floor Dust (mg/hr) | 2.53E+01 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Floor RP (mg/hr) | 0.00E+00 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Suspended Dust (mg/hr) | 1.18E+02 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Suspended RP (mg/hr) | 1.47E+01 |
| 2. Inputs; c. Environment Inputs | Radius of Abraded Particle (m) | 7.00E-05 |

TCEP_livfoam0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: furniture (sofa, chairs, tables)
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

| | | |
|----------------------------------|-----------------------------------|----------|
| 2. Inputs; c. Environment Inputs | Radius of Particle, Dust (m) | 5.00E-04 |
| 2. Inputs; c. Environment Inputs | Radius of Particle, RP (m) | 5.00E-06 |
| 2. Inputs; c. Environment Inputs | Resuspension Rate, Dust (per day) | 2.10E-04 |
| 2. Inputs; c. Environment Inputs | Resuspension Rate, RP (per day) | 2.60E-05 |
| 2. Inputs; c. Environment Inputs | Thickness of Interior Surface (m) | 5.00E-03 |
| 2. Inputs; c. Environment Inputs | Use Environment Volume (m3) | 5.00E+01 |

Exposure Factors

| Receptor | Body Weight | Inhalation Rate After Use | Dust Ingest Rate | Surface Area to Body Weight | TC |
|-------------------------|-------------|---------------------------|------------------|-----------------------------|------|
| Adult (≥21 years) | 80 | 0.61 | 30 | 61.47 | 6800 |
| Youth (16-20 years) | 71.6 | 0.68 | 60 | 64.25 | 5576 |
| Youth (11-15 years) | 56.8 | 0.63 | 60 | 69.98 | 5576 |
| Child (6-10 years) | 31.8 | 0.5 | 60 | 84.91 | 3740 |
| Small Child (3-5 years) | 18.6 | 0.42 | 100 | 102.15 | 2652 |
| Infant (1-2 years) | 12.6 | 0.35 | 60 | 113.1 | 1972 |
| Infant (<1 year) | 7.8 | 0.23 | 30 | 127.39 | 1564 |

Notes: body weight = kg; dust ingest rate = mg/day; inhalation rate after use = m3/hr; surface area to body weight ratio = m2/kg; transfer coefficient(TC) = cm2/hr

| Receptor | Mouthing Dur | Exposure Dur-Chronic | Exposure Dur-Acute | Avg Time-Chronic | Avg Time-Acute |
|-------------------------|--------------|----------------------|--------------------|------------------|----------------|
| Adult (≥21 years) | 0 | 1 | 1 | 1 | 1 |
| Youth (16-20 years) | 0 | 1 | 1 | 1 | 1 |
| Youth (11-15 years) | 0 | 1 | 1 | 1 | 1 |
| Child (6-10 years) | 1.7 | 1 | 1 | 1 | 1 |
| Small Child (3-5 years) | 1.7 | 1 | 1 | 1 | 1 |
| Infant (1-2 years) | 8.5 | 1 | 1 | 1 | 1 |
| Infant (<1 year) | 10 | 1 | 1 | 1 | 1 |

Notes: mouthing duration = min/hr; averaging time - chronic = years; averaging time - acute = days; exposure duration - chronic = years; averaging time - acute = days

TCEP_playstruct0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Fabrics: curtains, rugs, wall coverings
 Use Environment: Outside
 Scenario Description/Notes: Not provided

TCEP_playstruct0624: Combined Analysis Results

| Receptor | Inhalation | | Ingestion | | Dermal | | Total | |
|---------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|
| | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) |
| Lifetime_LADD | 0.00E+00 | 7.83E-02 | 0.00E+00 | 1.70E-02 | 0.00E+00 | 1.45E-02 | 0.00E+00 | 1.10E-01 |
| Adult | 1.06E+00 | 6.05E-02 | 3.84E-03 | 3.05E-04 | 2.33E-02 | 1.35E-02 | 1.09E+00 | 7.43E-02 |
| Youth2 | 1.33E+00 | 7.54E-02 | 8.54E-03 | 6.79E-04 | 2.18E-02 | 1.26E-02 | 1.36E+00 | 8.87E-02 |
| Youth1 | 1.55E+00 | 8.80E-02 | 1.08E-02 | 8.56E-04 | 2.38E-02 | 1.38E-02 | 1.58E+00 | 1.03E-01 |
| Child2 | 2.20E+00 | 1.25E-01 | 4.06E-02 | 2.29E-02 | 3.01E-02 | 1.74E-02 | 2.27E+00 | 1.65E-01 |
| Child1 | 3.15E+00 | 1.79E-01 | 9.12E-02 | 4.09E-02 | 3.73E-02 | 2.17E-02 | 3.28E+00 | 2.42E-01 |
| Infant2 | 3.88E+00 | 2.20E-01 | 3.18E-01 | 2.74E-01 | 4.32E-02 | 2.51E-02 | 4.24E+00 | 5.19E-01 |
| Infant1 | 4.12E+00 | 2.34E-01 | 5.52E-01 | 5.16E-01 | 5.05E-02 | 2.93E-02 | 4.72E+00 | 7.79E-01 |

TCEP_playstruct0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Fabrics: curtains, rugs, wall coverings
 Use Environment: Outside
 Scenario Description/Notes: Not provided

TCEP_playstruct0624: Inhalation Results

Chronic Inhalation Results:

| Receptor | Steady-State Air SVOC Conc (ug/m3) | Background Air Chronic ADD (mg/kg-d) | Gas Phase Chronic ADD (mg/kg-d) | Steady-State RP SVOC Conc (ug/mg) | Particulate Phase Chronic ADD (mg/kg/d) | Inhalation Total Chronic ADD (mg/kg/d) |
|----------|------------------------------------|--------------------------------------|---------------------------------|-----------------------------------|---|--|
| Adult | 3.97e+03 | 0.00e+00 | 6.05e-02 | 4.81e+00 | 2.10e-06 | 6.05e-02 |
| Youth2 | 3.97e+03 | 0.00e+00 | 7.54e-02 | 4.81e+00 | 2.62e-06 | 7.54e-02 |
| Youth1 | 3.97e+03 | 0.00e+00 | 8.80e-02 | 4.81e+00 | 3.06e-06 | 8.80e-02 |
| Child2 | 3.97e+03 | 0.00e+00 | 1.25e-01 | 4.81e+00 | 4.33e-06 | 1.25e-01 |
| Child1 | 3.97e+03 | 0.00e+00 | 1.79e-01 | 4.81e+00 | 6.22e-06 | 1.79e-01 |
| Infant2 | 3.97e+03 | 0.00e+00 | 2.20e-01 | 4.81e+00 | 7.66e-06 | 2.20e-01 |
| Infant1 | 3.97e+03 | 0.00e+00 | 2.34e-01 | 4.81e+00 | 8.13e-06 | 2.34e-01 |

Time to background concentration- chronic (hr):

Acute Inhalation Results:

| Receptor | Background Air ADR (mg/kg/d) | Gas Phase ADR (mg/kg/d) | Particulate Phase ADR (mg/kg/d) | Inhalation Total ADR (mg/kg/d) |
|----------|------------------------------|-------------------------|---------------------------------|--------------------------------|
| Adult | 4.34e-05 | 1.06e+00 | 3.25e-05 | 1.06e+00 |
| Youth2 | 5.40e-05 | 1.33e+00 | 4.05e-05 | 1.33e+00 |
| Youth1 | 6.31e-05 | 1.55e+00 | 4.73e-05 | 1.55e+00 |
| Child2 | 8.94e-05 | 2.20e+00 | 6.70e-05 | 2.20e+00 |
| Child1 | 1.28e-04 | 3.15e+00 | 9.63e-05 | 3.15e+00 |
| Infant2 | 1.58e-04 | 3.88e+00 | 1.18e-04 | 3.88e+00 |
| Infant1 | 1.68e-04 | 4.12e+00 | 1.26e-04 | 4.12e+00 |

Time to background concentration- acute (hr):

TCEP_playstruct0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Fabrics: curtains, rugs, wall coverings
 Use Environment: Outside
 Scenario Description/Notes: Not provided

TCEP_playstruct0624: Ingestion Results

Chronic Ingestion Results:

| Receptor | Background Dust Chronic ADD (mg/kg/d) | Mouthing Chronic ADD (mg/kg/d) | Ingestion After Inhalation Chronic ADD (mg/kg/d) | Incidental Dust Chronic ADD (mg/kg/d) | Maximum Incidental Dust Chronic ADD (mg/kg/d) |
|----------|---------------------------------------|--------------------------------|--|---------------------------------------|---|
| Adult | 0.00E+00 | 0.00E+00 | 2.80E-06 | 3.02E-04 | 1.44E-02 |
| Youth2 | 0.00E+00 | 0.00E+00 | 3.49E-06 | 6.76E-04 | 3.22E-02 |
| Youth1 | 0.00E+00 | 0.00E+00 | 4.08E-06 | 8.52E-04 | 4.06E-02 |
| Child2 | 0.00E+00 | 2.14E-02 | 5.78E-06 | 1.52E-03 | 7.25E-02 |
| Child1 | 0.00E+00 | 3.66E-02 | 8.30E-06 | 4.34E-03 | 2.07E-01 |
| Infant2 | 0.00E+00 | 2.70E-01 | 1.02E-05 | 3.84E-03 | 1.83E-01 |
| Infant1 | 0.00E+00 | 5.13E-01 | 1.08E-05 | 3.10E-03 | 1.48E-01 |

Acute Ingestion Results:

| Receptor | Background Dust ADR (mg/kg/d) | Mouthing ADR (mg/kg/d) | Ingestion After Inhalation ADR (mg/kg/d) | Incidental Dust ADR (mg/kg/d) | Maximum Incidental Dust ADR (mg/kg/d) |
|----------|-------------------------------|------------------------|--|-------------------------------|---------------------------------------|
| Adult | 0.00E+00 | 0.00E+00 | 4.34E-05 | 3.80E-03 | 1.44E-02 |
| Youth2 | 0.00E+00 | 0.00E+00 | 5.40E-05 | 8.49E-03 | 3.22E-02 |
| Youth1 | 0.00E+00 | 0.00E+00 | 6.31E-05 | 1.07E-02 | 4.06E-02 |
| Child2 | 0.00E+00 | 2.14E-02 | 8.94E-05 | 1.91E-02 | 7.25E-02 |
| Child1 | 0.00E+00 | 3.66E-02 | 1.28E-04 | 5.45E-02 | 2.07E-01 |
| Infant2 | 0.00E+00 | 2.70E-01 | 1.58E-04 | 4.82E-02 | 1.83E-01 |
| Infant1 | 0.00E+00 | 5.13E-01 | 1.68E-04 | 3.90E-02 | 1.48E-01 |

TCEP_playstruct0624 Full Analysis Results

Chemical: TCEP
Product/Article: Fabrics: curtains, rugs, wall coverings
Use Environment: Outside
Scenario Description/Notes: Not provided

TCEP_playstruct0624: Dermal Results

Chronic Dermal Results:

| Receptor | Skin Contact Chronic ADD (mg/kg/d) | Vapor to Skin Chronic ADD (mg/kg/d) | Skin Contact with Dust Chronic ADD (mg/kg/d) | Total Chronic ADD (mg/kg/d) |
|----------|------------------------------------|-------------------------------------|--|-----------------------------|
| Adult | 1.26E-02 | 2.97E-06 | 8.41E-04 | 1.35E-02 |
| Youth2 | 1.18E-02 | 2.78E-06 | 7.87E-04 | 1.26E-02 |
| Youth1 | 1.29E-02 | 3.04E-06 | 8.60E-04 | 1.38E-02 |
| Child2 | 1.64E-02 | 3.85E-06 | 1.09E-03 | 1.74E-02 |
| Child1 | 2.03E-02 | 4.78E-06 | 1.35E-03 | 2.17E-02 |
| Infant2 | 2.35E-02 | 5.53E-06 | 1.56E-03 | 2.51E-02 |
| Infant1 | 2.75E-02 | 6.46E-06 | 1.83E-03 | 2.93E-02 |

Acute Dermal Results:

| Receptor | Skin Contact ADR (mg/kg/d) | Vapor to Skin ADR (mg/kg/d) | Skin Contact with Dust ADR (mg/kg/d) | Total ADR (mg/kg/d) |
|----------|----------------------------|-----------------------------|--------------------------------------|---------------------|
| Adult | 1.26E-02 | 5.23E-05 | 1.06E-02 | 2.33E-02 |
| Youth2 | 1.18E-02 | 4.90E-05 | 9.88E-03 | 2.18E-02 |
| Youth1 | 1.29E-02 | 5.35E-05 | 1.08E-02 | 2.38E-02 |
| Child2 | 1.64E-02 | 6.77E-05 | 1.37E-02 | 3.01E-02 |
| Child1 | 2.03E-02 | 8.40E-05 | 1.70E-02 | 3.73E-02 |
| Infant2 | 2.35E-02 | 9.72E-05 | 1.96E-02 | 4.32E-02 |
| Infant1 | 2.75E-02 | 1.14E-04 | 2.30E-02 | 5.05E-02 |

TCEP_playstruct0624 Full Analysis Results

Chemical: TCEP
Product/Article: Fabrics: curtains, rugs, wall coverings
Use Environment: Outside
Scenario Description/Notes: Not provided

CEM Scenario Summary

Scenario Name and Definition

Scenario: TCEP_playstruct0624
Chemical: TCEP
Product/Article: Fabrics: curtains, rugs, wall coverings
Use Environment: Outside
Scenario Description/notes:

Models

Models for the Selected Product or Article:

- E6: Emission from Article Placed in Environment
- A_INH1: Calculation of Inhalation Dose from Article Exposure
- A_ING1: Ingestion after Inhalation (Article Model)
- A_ING2: Ingestion of Article Mouthed
- A_ING3: Incidental Dust Ingestion (Article Model)
- A_DER1: Dermal Dose from Direct Transfer from Vapor Phase to Skin
- A_DER2: Dermal Dose from Article where Skin Contact Occurs
- A_DER3: Dermal Dose from Skin Contact with Dust

Additional Article Parameters

Article Users: Adult Youth Child
Activity Pattern: SAH Part-time Full-time

Inputs

TCEP_playstruct0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Fabrics: curtains, rugs, wall coverings
 Use Environment: Outside
 Scenario Description/Notes: Not provided

| Location | Required Input | Value |
|--|---|----------|
| 1. Scenario | Background Air Concentration (mg/m3) | 0.00E+00 |
| 1. Scenario | Background Dust Concentration (ug/mg) | 0.00E+00 |
| 1. Scenario | Initial Concentration of SVOC in Article (mg/cm3) | 4.03E+00 |
| 1. Scenario | Weight Fraction of Chemical (-) | 1.30E-02 |
| 2. Inputs; a. Chemical Properties | Gas Phase Mass Transfer Coefficient (m/hr) | 1.87E+00 |
| 2. Inputs; a. Chemical Properties | Henry's Law Coefficient (atm/M) | 2.95E-06 |
| 2. Inputs; a. Chemical Properties | Log Octanol-air Partition Coefficient (-) | 7.86E+00 |
| 2. Inputs; a. Chemical Properties | Log Octanol-water partition coefficient (-) | 1.78E+00 |
| 2. Inputs; a. Chemical Properties | Molecular Weight (g/mol) | 2.85E+02 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Abraded Particle (m/hr): | 5.19E-01 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Dust (m/hr) | 9.70E-01 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Interior Surface (m/hr) | 8.79E-04 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, RP (m/hr) | 1.86E+00 |
| 2. Inputs; a. Chemical Properties | Saturation Concentration in Air (mg/m3) | 9.35E+02 |
| 2. Inputs; a. Chemical Properties | Solid-Air Partition Coefficient (-) | 6.33E+04 |
| 2. Inputs; a. Chemical Properties | Solid-Phase Diffusion Coefficient (m2/hr) | 3.47E-11 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, Abraded Particle(m3/mg) | 2.34E-03 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, Dust (m3/mg) | 7.24E-03 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, RP (m3/mg) | 2.90E-02 |
| 2. Inputs; a. Chemical Properties | Vapor Pressure (torr) | 6.10E-02 |
| 2. Inputs; a. Chemical Properties | Water Solubility (mg/mL) | 7.82E+00 |
| 2. Inputs; b. Product/Article Properties | Absorption Fraction, Acute (-) | 3.51E-01 |
| 2. Inputs; b. Product/Article Properties | Absorption Fraction, Chronic (-) | 3.51E-01 |
| 2. Inputs; b. Product/Article Properties | Adherence Factor (mg/cm2*event) | 4.00E-02 |
| 2. Inputs; b. Product/Article Properties | Area of Article Mouthed (cm2) | 1.00E+01 |
| 2. Inputs; b. Product/Article Properties | Average Molecule Diffusion per Contact (m) | 1.44E-03 |
| 2. Inputs; b. Product/Article Properties | Chemical Migration Rate (mg/cm2/hr) | 1.00E-01 |

TCEP_playstruct0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Fabrics: curtains, rugs, wall coverings
 Use Environment: Outside
 Scenario Description/Notes: Not provided

| | | |
|--|--|----------|
| 2. Inputs; b. Product/Article Properties | Density of Product/Article (g/cm ³) | 3.10E-01 |
| 2. Inputs; b. Product/Article Properties | Duration of Article Contact (min) | 1.80E+02 |
| 2. Inputs; b. Product/Article Properties | Frequency of Article Contact (events/day) | 1.00E+00 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction - Dust (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction - TSP (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction, Abraded Particle (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Skin Permeability Coefficient (cm/hr) | 2.20E-03 |
| 2. Inputs; b. Product/Article Properties | Surface Area of Article (m ²) | 1.79E+01 |
| 2. Inputs; b. Product/Article Properties | Thickness of Article Surface Layer (m) | 5.50E-02 |
| 2. Inputs; b. Product/Article Properties | Transdermal Permeability Coefficient (m/hr) | 6.05E-04 |
| 2. Inputs; c. Environment Inputs | Abraded Particle Deposition Rate Constant (1/hr) | 2.34E+00 |
| 2. Inputs; c. Environment Inputs | Abraded Particle Resuspension Rate (1/hr) | 1.29E-04 |
| 2. Inputs; c. Environment Inputs | Ambient RP Concentration (mg/m ³) | 5.20E-02 |
| 2. Inputs; c. Environment Inputs | Area of Interior Surface (m ²) | 1.02E+03 |
| 2. Inputs; c. Environment Inputs | Cleaning Efficiency (-) | 4.60E-01 |
| 2. Inputs; c. Environment Inputs | Cleaning Frequency (per hour) | 6.00E-03 |
| 2. Inputs; c. Environment Inputs | Density of Particle, Dust (mg/m ³) | 2.00E+09 |
| 2. Inputs; c. Environment Inputs | Density of Particle, RP (mg/m ³) | 1.00E+09 |
| 2. Inputs; c. Environment Inputs | Deposition Rate, Dust (per hour) | 3.30E+00 |
| 2. Inputs; c. Environment Inputs | Deposition Rate, RP (per hour) | 1.00E+00 |
| 2. Inputs; c. Environment Inputs | Generation Rate of Abraded Particles (mg/hr) | 5.31E-03 |
| 2. Inputs; c. Environment Inputs | HVAC Filter Penetration for RP (-) | 5.00E-02 |
| 2. Inputs; c. Environment Inputs | Interzone Ventilation Rate (m ³ /hr) | 1.00E-30 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Floor Dust (mg/hr) | 2.53E+01 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Floor RP (mg/hr) | 0.00E+00 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Suspended Dust (mg/hr) | 1.18E+02 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Suspended RP (mg/hr) | 1.47E+01 |
| 2. Inputs; c. Environment Inputs | Radius of Abraded Particle (m) | 7.00E-05 |

TCEP_playstruct0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Fabrics: curtains, rugs, wall coverings
 Use Environment: Outside
 Scenario Description/Notes: Not provided

| | | |
|----------------------------------|-----------------------------------|----------|
| 2. Inputs; c. Environment Inputs | Radius of Particle, Dust (m) | 5.00E-04 |
| 2. Inputs; c. Environment Inputs | Radius of Particle, RP (m) | 5.00E-06 |
| 2. Inputs; c. Environment Inputs | Resuspension Rate, Dust (per day) | 2.10E-04 |
| 2. Inputs; c. Environment Inputs | Resuspension Rate, RP (per day) | 2.60E-05 |
| 2. Inputs; c. Environment Inputs | Thickness of Interior Surface (m) | 5.00E-03 |
| 2. Inputs; c. Environment Inputs | Use Environment Volume (m3) | 4.92E+02 |

Exposure Factors

| Receptor | Body Weight | Inhalation Rate After Use | Dust Ingest Rate | Surface Area to Body Weight | TC |
|-------------------------|-------------|---------------------------|------------------|-----------------------------|------|
| Adult (≥21 years) | 80 | 0.61 | 30 | 6.19389587073609 | 6800 |
| Youth (16-20 years) | 71.6 | 0.68 | 60 | 5.79608938547486 | 5576 |
| Youth (11-15 years) | 56.8 | 0.63 | 60 | 6.33802816901408 | 5576 |
| Child (6-10 years) | 31.8 | 0.5 | 60 | 8.0188679245283 | 3740 |
| Small Child (3-5 years) | 18.6 | 0.42 | 100 | 9.94623655913978 | 2652 |
| Infant (1-2 years) | 12.6 | 0.35 | 60 | 11.5079365079365 | 1972 |
| Infant (<1 year) | 7.8 | 0.23 | 30 | 13.4574468085106 | 1564 |

Notes: body weight = kg; dust ingest rate = mg/day; inhalation rate after use = m3/hr; surface area to body weight ratio = m2/kg; transfer coefficient(TC) = cm2/hr

| Receptor | Mouthing Dur | Exposure Dur-Chronic | Exposure Dur-Acute | Avg Time-Chronic | Avg Time-Acute |
|-------------------------|--------------|----------------------|--------------------|------------------|----------------|
| Adult (≥21 years) | 0 | 1 | 1 | 1 | 1 |
| Youth (16-20 years) | 0 | 1 | 1 | 1 | 1 |
| Youth (11-15 years) | 0 | 1 | 1 | 1 | 1 |
| Child (6-10 years) | 1.7 | 1 | 1 | 1 | 1 |
| Small Child (3-5 years) | 1.7 | 1 | 1 | 1 | 1 |
| Infant (1-2 years) | 8.5 | 1 | 1 | 1 | 1 |
| Infant (<1 year) | 10 | 1 | 1 | 1 | 1 |

Notes: mouthing duration = min/hr; averaging time - chronic = years; averaging time - acute = days; exposure duration - chronic = years; averaging time - acute = days

Plastic articles: foam insulation Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: foam insulation
 Use Environment: Residence - Whole house
 Scenario Description/Notes: Not provided

Plastic articles: foam insulation: Combined Analysis Results

| Receptor | Inhalation | | Ingestion | | Dermal | | Total | |
|---------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|
| | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) |
| Lifetime_LADD | 0.00E+00 | 1.04E+00 | 0.00E+00 | 5.26E-03 | 0.00E+00 | 7.55E-04 | 0.00E+00 | 1.05E+00 |
| Adult | 2.32E+01 | 1.42E+00 | 8.87E-02 | 7.20E-03 | 1.29E-02 | 1.03E-03 | 2.33E+01 | 1.43E+00 |
| Youth2 | 2.88E+01 | 1.77E+00 | 1.98E-01 | 1.61E-02 | 1.20E-02 | 9.66E-04 | 2.90E+01 | 1.79E+00 |
| Youth1 | 3.37E+01 | 2.07E+00 | 2.50E-01 | 2.03E-02 | 1.32E-02 | 1.06E-03 | 3.39E+01 | 2.09E+00 |
| Child2 | 4.77E+01 | 2.93E+00 | 4.46E-01 | 3.62E-02 | 1.67E-02 | 1.34E-03 | 4.82E+01 | 2.97E+00 |
| Child1 | 6.86E+01 | 4.21E+00 | 1.27E+00 | 1.03E-01 | 2.07E-02 | 1.66E-03 | 6.99E+01 | 4.32E+00 |
| Infant2 | 8.43E+01 | 5.18E+00 | 1.13E+00 | 9.13E-02 | 2.39E-02 | 1.92E-03 | 8.55E+01 | 5.27E+00 |
| Infant1 | 8.95E+01 | 5.50E+00 | 9.09E-01 | 7.38E-02 | 2.80E-02 | 2.25E-03 | 9.05E+01 | 5.57E+00 |

Plastic articles: foam insulation Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: foam insulation
 Use Environment: Residence - Whole house
 Scenario Description/Notes: Not provided

Plastic articles: foam insulation: Inhalation Results

Chronic Inhalation Results:

| Receptor | Steady-State Air SVOC Conc (ug/m3) | Background Air Chronic ADD (mg/kg-d) | Gas Phase Chronic ADD (mg/kg-d) | Steady-State RP SVOC Conc (ug/mg) | Particulate Phase Chronic ADD (mg/kg/d) | Inhalation Total Chronic ADD (mg/kg/d) |
|----------|------------------------------------|--------------------------------------|---------------------------------|-----------------------------------|---|--|
| Adult | 9.32e+03 | 0.00e+00 | 1.42e+00 | 1.13e+01 | 4.96e-05 | 1.42e+00 |
| Youth2 | 9.32e+03 | 0.00e+00 | 1.77e+00 | 1.13e+01 | 6.18e-05 | 1.77e+00 |
| Youth1 | 9.32e+03 | 0.00e+00 | 2.07e+00 | 1.13e+01 | 7.21e-05 | 2.07e+00 |
| Child2 | 9.32e+03 | 0.00e+00 | 2.93e+00 | 1.13e+01 | 1.02e-04 | 2.93e+00 |
| Child1 | 9.32e+03 | 0.00e+00 | 4.21e+00 | 1.13e+01 | 1.47e-04 | 4.21e+00 |
| Infant2 | 9.32e+03 | 0.00e+00 | 5.18e+00 | 1.13e+01 | 1.81e-04 | 5.18e+00 |
| Infant1 | 9.32e+03 | 0.00e+00 | 5.50e+00 | 1.13e+01 | 1.92e-04 | 5.50e+00 |

Time to background concentration- chronic (hr):

Acute Inhalation Results:

| Receptor | Background Air ADR (mg/kg/d) | Gas Phase ADR (mg/kg/d) | Particulate Phase ADR (mg/kg/d) | Inhalation Total ADR (mg/kg/d) |
|----------|------------------------------|-------------------------|---------------------------------|--------------------------------|
| Adult | 9.62e-05 | 2.32e+01 | 7.22e-04 | 2.32e+01 |
| Youth2 | 1.20e-04 | 2.88e+01 | 8.99e-04 | 2.88e+01 |
| Youth1 | 1.40e-04 | 3.37e+01 | 1.05e-03 | 3.37e+01 |
| Child2 | 1.98e-04 | 4.77e+01 | 1.49e-03 | 4.77e+01 |
| Child1 | 2.85e-04 | 6.86e+01 | 2.14e-03 | 6.86e+01 |
| Infant2 | 3.51e-04 | 8.43e+01 | 2.63e-03 | 8.43e+01 |
| Infant1 | 3.72e-04 | 8.95e+01 | 2.79e-03 | 8.95e+01 |

Time to background concentration- acute (hr):

Plastic articles: foam insulation Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: foam insulation
 Use Environment: Residence - Whole house
 Scenario Description/Notes: Not provided

Plastic articles: foam insulation: Ingestion Results

Chronic Ingestion Results:

| Receptor | Background Dust Chronic ADD (mg/kg/d) | Mouthing Chronic ADD (mg/kg/d) | Ingestion After Inhalation Chronic ADD (mg/kg/d) | Incidental Dust Chronic ADD (mg/kg/d) | Maximum Incidental Dust Chronic ADD (mg/kg/d) |
|----------|---------------------------------------|--------------------------------|--|---------------------------------------|---|
| Adult | 0.00E+00 | 0.00E+00 | 6.61E-06 | 7.19E-03 | 2.12E-02 |
| Youth2 | 0.00E+00 | 0.00E+00 | 8.23E-06 | 1.61E-02 | 4.75E-02 |
| Youth1 | 0.00E+00 | 0.00E+00 | 9.62E-06 | 2.03E-02 | 5.98E-02 |
| Child2 | 0.00E+00 | 0.00E+00 | 1.36E-05 | 3.62E-02 | 1.07E-01 |
| Child1 | 0.00E+00 | 0.00E+00 | 1.96E-05 | 1.03E-01 | 3.05E-01 |
| Infant2 | 0.00E+00 | 0.00E+00 | 2.41E-05 | 9.13E-02 | 2.70E-01 |
| Infant1 | 0.00E+00 | 0.00E+00 | 2.56E-05 | 7.37E-02 | 2.18E-01 |

Acute Ingestion Results:

| Receptor | Background Dust ADR (mg/kg/d) | Mouthing ADR (mg/kg/d) | Ingestion After Inhalation ADR (mg/kg/d) | Incidental Dust ADR (mg/kg/d) | Maximum Incidental Dust ADR (mg/kg/d) |
|----------|-------------------------------|------------------------|--|-------------------------------|---------------------------------------|
| Adult | 0.00E+00 | 0.00E+00 | 9.62E-05 | 8.86E-02 | 2.12E-02 |
| Youth2 | 0.00E+00 | 0.00E+00 | 1.20E-04 | 1.98E-01 | 4.75E-02 |
| Youth1 | 0.00E+00 | 0.00E+00 | 1.40E-04 | 2.50E-01 | 5.98E-02 |
| Child2 | 0.00E+00 | 0.00E+00 | 1.98E-04 | 4.46E-01 | 1.07E-01 |
| Child1 | 0.00E+00 | 0.00E+00 | 2.85E-04 | 1.27E+00 | 3.05E-01 |
| Infant2 | 0.00E+00 | 0.00E+00 | 3.51E-04 | 1.12E+00 | 2.70E-01 |
| Infant1 | 0.00E+00 | 0.00E+00 | 3.72E-04 | 9.08E-01 | 2.18E-01 |

Plastic articles: foam insulation Full Analysis Results

Chemical: TCEP
Product/Article: Plastic articles: foam insulation
Use Environment: Residence - Whole house
Scenario Description/Notes: Not provided

Plastic articles: foam insulation: Dermal Results

Chronic Dermal Results:

| Receptor | Skin Contact Chronic ADD (mg/kg/d) | Vapor to Skin Chronic ADD (mg/kg/d) | Skin Contact with Dust Chronic ADD (mg/kg/d) | Total Chronic ADD (mg/kg/d) |
|----------|------------------------------------|-------------------------------------|--|-----------------------------|
| Adult | 0.00E+00 | 3.49E-05 | 9.98E-04 | 1.03E-03 |
| Youth2 | 0.00E+00 | 3.26E-05 | 9.34E-04 | 9.66E-04 |
| Youth1 | 0.00E+00 | 3.57E-05 | 1.02E-03 | 1.06E-03 |
| Child2 | 0.00E+00 | 4.52E-05 | 1.29E-03 | 1.34E-03 |
| Child1 | 0.00E+00 | 5.61E-05 | 1.61E-03 | 1.66E-03 |
| Infant2 | 0.00E+00 | 6.49E-05 | 1.86E-03 | 1.92E-03 |
| Infant1 | 0.00E+00 | 7.59E-05 | 2.17E-03 | 2.25E-03 |

Acute Dermal Results:

| Receptor | Skin Contact ADR (mg/kg/d) | Vapor to Skin ADR (mg/kg/d) | Skin Contact with Dust ADR (mg/kg/d) | Total ADR (mg/kg/d) |
|----------|----------------------------|-----------------------------|--------------------------------------|---------------------|
| Adult | 0.00E+00 | 5.68E-04 | 1.23E-02 | 1.29E-02 |
| Youth2 | 0.00E+00 | 5.31E-04 | 1.15E-02 | 1.20E-02 |
| Youth1 | 0.00E+00 | 5.81E-04 | 1.26E-02 | 1.32E-02 |
| Child2 | 0.00E+00 | 7.35E-04 | 1.59E-02 | 1.67E-02 |
| Child1 | 0.00E+00 | 9.14E-04 | 1.98E-02 | 2.07E-02 |
| Infant2 | 0.00E+00 | 1.06E-03 | 2.29E-02 | 2.39E-02 |
| Infant1 | 0.00E+00 | 1.24E-03 | 2.67E-02 | 2.80E-02 |

Plastic articles: foam insulation Full Analysis Results

Chemical: TCEP
Product/Article: Plastic articles: foam insulation
Use Environment: Residence - Whole house
Scenario Description/Notes: Not provided

CEM Scenario Summary

Scenario Name and Definition

Scenario: Plastic articles: foam insulation
Chemical: TCEP
Product/Article: Plastic articles: foam insulation
Use Environment: Residence - Whole house

Scenario Description/notes:

Models

Models for the Selected Product or Article:

- E6: Emission from Article Placed in Environment
- A_INH1: Calculation of Inhalation Dose from Article Exposure
- A_ING1: Ingestion after Inhalation (Article Model)
- A_ING2: Ingestion of Article Mouthed
- A_ING3: Incidental Dust Ingestion (Article Model)
- A_DER1: Dermal Dose from Direct Transfer from Vapor Phase to Skin
- A_DER2: Dermal Dose from Article where Skin Contact Occurs
- A_DER3: Dermal Dose from Skin Contact with Dust

Additional Article Parameters

Article Users: Adult Youth Child
Activity Pattern: SAH Part-time Full-time

Inputs

Plastic articles: foam insulation Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: foam insulation
 Use Environment: Residence - Whole house
 Scenario Description/Notes: Not provided

| Location | Required Input | Value |
|--|---|----------|
| 1. Scenario | Background Air Concentration (mg/m3) | 0.00E+00 |
| 1. Scenario | Background Dust Concentration (ug/mg) | 0.00E+00 |
| 1. Scenario | Initial Concentration of SVOC in Article (mg/cm3) | 5.94E-01 |
| 1. Scenario | Weight Fraction of Chemical (-) | 1.98E-02 |
| 2. Inputs; a. Chemical Properties | Gas Phase Mass Transfer Coefficient (m/hr) | 1.87E+00 |
| 2. Inputs; a. Chemical Properties | Henry's Law Coefficient (atm/M) | 2.95E-06 |
| 2. Inputs; a. Chemical Properties | Log Octanol-air Partition Coefficient (-) | 7.86E+00 |
| 2. Inputs; a. Chemical Properties | Log Octanol-water partition coefficient (-) | 1.78E+00 |
| 2. Inputs; a. Chemical Properties | Molecular Weight (g/mol) | 2.85E+02 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Abraded Particle (m/hr): | 5.19E-01 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Dust (m/hr) | 9.70E-01 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Interior Surface (m/hr) | 8.79E-04 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, RP (m/hr) | 1.86E+00 |
| 2. Inputs; a. Chemical Properties | Saturation Concentration in Air (mg/m3) | 9.35E+02 |
| 2. Inputs; a. Chemical Properties | Solid-Air Partition Coefficient (-) | 6.33E+04 |
| 2. Inputs; a. Chemical Properties | Solid-Phase Diffusion Coefficient (m2/hr) | 3.47E-11 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, Abraded Particle(m3/mg) | 2.41E-02 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, Dust (m3/mg) | 7.24E-03 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, RP (m3/mg) | 2.90E-02 |
| 2. Inputs; a. Chemical Properties | Vapor Pressure (torr) | 6.10E-02 |
| 2. Inputs; a. Chemical Properties | Water Solubility (mg/mL) | 7.82E+00 |
| 2. Inputs; b. Product/Article Properties | Absorption Fraction, Acute (-) | 3.51E-01 |
| 2. Inputs; b. Product/Article Properties | Absorption Fraction, Chronic (-) | 3.51E-01 |
| 2. Inputs; b. Product/Article Properties | Adherence Factor (mg/cm2*event) | 4.00E-02 |
| 2. Inputs; b. Product/Article Properties | Area of Article Mouthed (cm2) | 0.00E+00 |
| 2. Inputs; b. Product/Article Properties | Average Molecule Diffusion per Contact (m) | 0.00E+00 |
| 2. Inputs; b. Product/Article Properties | Chemical Migration Rate (mg/cm2/hr) | 1.00E-01 |

Plastic articles: foam insulation Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: foam insulation
 Use Environment: Residence - Whole house
 Scenario Description/Notes: Not provided

| | | |
|--|--|----------|
| 2. Inputs; b. Product/Article Properties | Density of Product/Article (g/cm ³) | 3.00E-02 |
| 2. Inputs; b. Product/Article Properties | Duration of Article Contact (min) | 0.00E+00 |
| 2. Inputs; b. Product/Article Properties | Frequency of Article Contact (events/day) | 1.00E+00 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction - Dust (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction - TSP (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction, Abraded Particle (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Skin Permeability Coefficient (cm/hr) | 2.20E-03 |
| 2. Inputs; b. Product/Article Properties | Surface Area of Article (m ²) | 1.58E+02 |
| 2. Inputs; b. Product/Article Properties | Thickness of Article Surface Layer (m) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Transdermal Permeability Coefficient (m/hr) | 6.05E-04 |
| 2. Inputs; c. Environment Inputs | Abraded Particle Deposition Rate Constant (1/hr) | 2.34E+00 |
| 2. Inputs; c. Environment Inputs | Abraded Particle Resuspension Rate (1/hr) | 1.29E-04 |
| 2. Inputs; c. Environment Inputs | Ambient RP Concentration (mg/m ³) | 5.20E-02 |
| 2. Inputs; c. Environment Inputs | Area of Interior Surface (m ²) | 1.02E+03 |
| 2. Inputs; c. Environment Inputs | Cleaning Efficiency (-) | 4.60E-01 |
| 2. Inputs; c. Environment Inputs | Cleaning Frequency (per hour) | 6.00E-03 |
| 2. Inputs; c. Environment Inputs | Density of Particle, Dust (mg/m ³) | 2.00E+09 |
| 2. Inputs; c. Environment Inputs | Density of Particle, RP (mg/m ³) | 1.00E+09 |
| 2. Inputs; c. Environment Inputs | Deposition Rate, Dust (per hour) | 3.30E+00 |
| 2. Inputs; c. Environment Inputs | Deposition Rate, RP (per hour) | 1.00E+00 |
| 2. Inputs; c. Environment Inputs | Generation Rate of Abraded Particles (mg/hr) | 5.31E-03 |
| 2. Inputs; c. Environment Inputs | HVAC Filter Penetration for RP (-) | 5.00E-02 |
| 2. Inputs; c. Environment Inputs | Interzone Ventilation Rate (m ³ /hr) | 1.00E-30 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Floor Dust (mg/hr) | 2.53E+01 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Floor RP (mg/hr) | 0.00E+00 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Suspended Dust (mg/hr) | 1.18E+02 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Suspended RP (mg/hr) | 1.47E+01 |
| 2. Inputs; c. Environment Inputs | Radius of Abraded Particle (m) | 7.00E-05 |

Plastic articles: foam insulation Full Analysis Results

Chemical: TCEP
 Product/Article: Plastic articles: foam insulation
 Use Environment: Residence - Whole house
 Scenario Description/Notes: Not provided

| | | |
|----------------------------------|-----------------------------------|----------|
| 2. Inputs; c. Environment Inputs | Radius of Particle, Dust (m) | 5.00E-04 |
| 2. Inputs; c. Environment Inputs | Radius of Particle, RP (m) | 5.00E-06 |
| 2. Inputs; c. Environment Inputs | Resuspension Rate, Dust (per day) | 2.10E-04 |
| 2. Inputs; c. Environment Inputs | Resuspension Rate, RP (per day) | 2.60E-05 |
| 2. Inputs; c. Environment Inputs | Thickness of Interior Surface (m) | 5.00E-03 |
| 2. Inputs; c. Environment Inputs | Use Environment Volume (m3) | 4.92E+02 |

Exposure Factors

| Receptor | Body Weight | Inhalation Rate After Use | Dust Ingest Rate | Surface Area to Body Weight | TC |
|-------------------------|-------------|---------------------------|------------------|-----------------------------|------|
| Adult (≥21 years) | 80 | 0.61 | 30 | 3.09694793536804 | 6800 |
| Youth (16-20 years) | 71.6 | 0.68 | 60 | 2.89804469273743 | 5576 |
| Youth (11-15 years) | 56.8 | 0.63 | 60 | 3.16901408450704 | 5576 |
| Child (6-10 years) | 31.8 | 0.5 | 60 | 4.00943396226415 | 3740 |
| Small Child (3-5 years) | 18.6 | 0.42 | 100 | 4.97311827956989 | 2652 |
| Infant (1-2 years) | 12.6 | 0.35 | 60 | 5.75396825396825 | 1972 |
| Infant (<1 year) | 7.8 | 0.23 | 30 | 6.72872340425532 | 1564 |

Notes: body weight = kg; dust ingest rate = mg/day; inhalation rate after use = m3/hr; surface area to body weight ratio = m2/kg; transfer coefficient(TC) = cm2/hr

| Receptor | Mouthing Dur | Exposure Dur-Chronic | Exposure Dur-Acute | Avg Time-Chronic | Avg Time-Acute |
|-------------------------|--------------|----------------------|--------------------|------------------|----------------|
| Adult (≥21 years) | 0 | 1 | 1 | 1 | 1 |
| Youth (16-20 years) | 0 | 1 | 1 | 1 | 1 |
| Youth (11-15 years) | 0 | 1 | 1 | 1 | 1 |
| Child (6-10 years) | 1.7 | 1 | 1 | 1 | 1 |
| Small Child (3-5 years) | 1.7 | 1 | 1 | 1 | 1 |
| Infant (1-2 years) | 8.5 | 1 | 1 | 1 | 1 |
| Infant (<1 year) | 10 | 1 | 1 | 1 | 1 |

Notes: mouthing duration = min/hr; averaging time - chronic = years; averaging time - acute = days; exposure duration - chronic = years; averaging time - acute = days

tvstand Full Analysis Results

Chemical: TCEP
 Product/Article: Wood articles: hardwood floors, furniture
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

tvstand: Combined Analysis Results

| Receptor | Inhalation | | Ingestion | | Dermal | | Total | |
|---------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|
| | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) |
| Lifetime_LADD | 0.00E+00 | 8.50E-03 | 0.00E+00 | 1.63E-02 | 0.00E+00 | 8.27E-02 | 0.00E+00 | 1.08E-01 |
| Adult | 1.18E+00 | 6.57E-03 | 7.03E-04 | 9.56E-06 | 7.88E-02 | 7.69E-02 | 1.26E+00 | 8.34E-02 |
| Youth2 | 1.47E+00 | 8.19E-03 | 1.57E-03 | 2.13E-05 | 7.37E-02 | 7.19E-02 | 1.54E+00 | 8.01E-02 |
| Youth1 | 1.72E+00 | 9.56E-03 | 1.97E-03 | 2.69E-05 | 8.06E-02 | 7.86E-02 | 1.80E+00 | 8.82E-02 |
| Child2 | 2.43E+00 | 1.36E-02 | 2.49E-02 | 2.14E-02 | 1.02E-01 | 9.95E-02 | 2.56E+00 | 1.34E-01 |
| Child1 | 3.49E+00 | 1.95E-02 | 4.66E-02 | 3.67E-02 | 1.27E-01 | 1.23E-01 | 3.66E+00 | 1.80E-01 |
| Infant2 | 4.30E+00 | 2.40E-02 | 2.79E-01 | 2.70E-01 | 1.46E-01 | 1.43E-01 | 4.72E+00 | 4.37E-01 |
| Infant1 | 4.56E+00 | 2.54E-02 | 5.20E-01 | 5.13E-01 | 1.71E-01 | 1.67E-01 | 5.25E+00 | 7.05E-01 |

tvstand Full Analysis Results

Chemical: TCEP
 Product/Article: Wood articles: hardwood floors, furniture
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

tvstand: Inhalation Results

Chronic Inhalation Results:

| Receptor | Steady-State Air SVOC Conc (ug/m3) | Background Air Chronic ADD (mg/kg-d) | Gas Phase Chronic ADD (mg/kg-d) | Steady-State RP SVOC Conc (ug/mg) | Particulate Phase Chronic ADD (mg/kg/d) | Inhalation Total Chronic ADD (mg/kg/d) |
|----------|------------------------------------|--------------------------------------|---------------------------------|-----------------------------------|---|--|
| Adult | 4.31e+01 | 0.00e+00 | 6.57e-03 | 1.53e-02 | 2.08e-07 | 6.57e-03 |
| Youth2 | 4.31e+01 | 0.00e+00 | 8.19e-03 | 1.53e-02 | 2.60e-07 | 8.19e-03 |
| Youth1 | 4.31e+01 | 0.00e+00 | 9.56e-03 | 1.53e-02 | 3.03e-07 | 9.56e-03 |
| Child2 | 4.31e+01 | 0.00e+00 | 1.36e-02 | 1.53e-02 | 4.30e-07 | 1.36e-02 |
| Child1 | 4.31e+01 | 0.00e+00 | 1.95e-02 | 1.53e-02 | 6.17e-07 | 1.95e-02 |
| Infant2 | 4.31e+01 | 0.00e+00 | 2.39e-02 | 1.53e-02 | 7.59e-07 | 2.40e-02 |
| Infant1 | 4.31e+01 | 0.00e+00 | 2.54e-02 | 1.53e-02 | 8.06e-07 | 2.54e-02 |

Time to background concentration- chronic (hr):

Acute Inhalation Results:

| Receptor | Background Air ADR (mg/kg/d) | Gas Phase ADR (mg/kg/d) | Particulate Phase ADR (mg/kg/d) | Inhalation Total ADR (mg/kg/d) |
|----------|------------------------------|-------------------------|---------------------------------|--------------------------------|
| Adult | 4.67e-06 | 1.18e+00 | 3.51e-05 | 1.18e+00 |
| Youth2 | 5.82e-06 | 1.47e+00 | 4.37e-05 | 1.47e+00 |
| Youth1 | 6.80e-06 | 1.72e+00 | 5.10e-05 | 1.72e+00 |
| Child2 | 9.64e-06 | 2.43e+00 | 7.23e-05 | 2.43e+00 |
| Child1 | 1.38e-05 | 3.49e+00 | 1.04e-04 | 3.49e+00 |
| Infant2 | 1.70e-05 | 4.30e+00 | 1.28e-04 | 4.30e+00 |
| Infant1 | 1.81e-05 | 4.56e+00 | 1.36e-04 | 4.56e+00 |

Time to background concentration- acute (hr):

tvstand Full Analysis Results

Chemical: TCEP
 Product/Article: Wood articles: hardwood floors, furniture
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

tvstand: Ingestion Results

Chronic Ingestion Results:

| Receptor | Background Dust Chronic ADD (mg/kg/d) | Mouthing Chronic ADD (mg/kg/d) | Ingestion After Inhalation Chronic ADD (mg/kg/d) | Incidental Dust Chronic ADD (mg/kg/d) | Maximum Incidental Dust Chronic ADD (mg/kg/d) |
|----------|---------------------------------------|--------------------------------|--|---------------------------------------|---|
| Adult | 0.00E+00 | 0.00E+00 | 2.78E-08 | 9.53E-06 | 1.07E+00 |
| Youth2 | 0.00E+00 | 0.00E+00 | 3.46E-08 | 2.13E-05 | 2.40E+00 |
| Youth1 | 0.00E+00 | 0.00E+00 | 4.04E-08 | 2.69E-05 | 3.02E+00 |
| Child2 | 0.00E+00 | 2.14E-02 | 5.73E-08 | 4.80E-05 | 5.40E+00 |
| Child1 | 0.00E+00 | 3.66E-02 | 8.23E-08 | 1.37E-04 | 1.54E+01 |
| Infant2 | 0.00E+00 | 2.70E-01 | 1.01E-07 | 1.21E-04 | 1.36E+01 |
| Infant1 | 0.00E+00 | 5.13E-01 | 1.07E-07 | 9.78E-05 | 1.10E+01 |

Acute Ingestion Results:

| Receptor | Background Dust ADR (mg/kg/d) | Mouthing ADR (mg/kg/d) | Ingestion After Inhalation ADR (mg/kg/d) | Incidental Dust ADR (mg/kg/d) | Maximum Incidental Dust ADR (mg/kg/d) |
|----------|-------------------------------|------------------------|--|-------------------------------|---------------------------------------|
| Adult | 0.00E+00 | 0.00E+00 | 4.67E-06 | 6.98E-04 | 1.07E+00 |
| Youth2 | 0.00E+00 | 0.00E+00 | 5.82E-06 | 1.56E-03 | 2.40E+00 |
| Youth1 | 0.00E+00 | 0.00E+00 | 6.80E-06 | 1.97E-03 | 3.02E+00 |
| Child2 | 0.00E+00 | 2.14E-02 | 9.64E-06 | 3.51E-03 | 5.40E+00 |
| Child1 | 0.00E+00 | 3.66E-02 | 1.38E-05 | 1.00E-02 | 1.54E+01 |
| Infant2 | 0.00E+00 | 2.70E-01 | 1.70E-05 | 8.86E-03 | 1.36E+01 |
| Infant1 | 0.00E+00 | 5.13E-01 | 1.81E-05 | 7.16E-03 | 1.10E+01 |

tvstand Full Analysis Results

Chemical: TCEP
 Product/Article: Wood articles: hardwood floors, furniture
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

tvstand: Dermal Results

Chronic Dermal Results:

| Receptor | Skin Contact Chronic ADD (mg/kg/d) | Vapor to Skin Chronic ADD (mg/kg/d) | Skin Contact with Dust Chronic ADD (mg/kg/d) | Total Chronic ADD (mg/kg/d) |
|----------|------------------------------------|-------------------------------------|--|-----------------------------|
| Adult | 7.68E-02 | 3.23E-07 | 2.65E-05 | 7.69E-02 |
| Youth2 | 7.19E-02 | 3.02E-07 | 2.48E-05 | 7.19E-02 |
| Youth1 | 7.86E-02 | 3.30E-07 | 2.71E-05 | 7.86E-02 |
| Child2 | 9.94E-02 | 4.18E-07 | 3.43E-05 | 9.95E-02 |
| Child1 | 1.23E-01 | 5.19E-07 | 4.26E-05 | 1.23E-01 |
| Infant2 | 1.43E-01 | 6.00E-07 | 4.92E-05 | 1.43E-01 |
| Infant1 | 1.67E-01 | 7.02E-07 | 5.76E-05 | 1.67E-01 |

Acute Dermal Results:

| Receptor | Skin Contact ADR (mg/kg/d) | Vapor to Skin ADR (mg/kg/d) | Skin Contact with Dust ADR (mg/kg/d) | Total ADR (mg/kg/d) |
|----------|----------------------------|-----------------------------|--------------------------------------|---------------------|
| Adult | 7.68E-02 | 5.79E-05 | 1.94E-03 | 7.88E-02 |
| Youth2 | 7.19E-02 | 5.42E-05 | 1.82E-03 | 7.37E-02 |
| Youth1 | 7.86E-02 | 5.93E-05 | 1.99E-03 | 8.06E-02 |
| Child2 | 9.94E-02 | 7.50E-05 | 2.51E-03 | 1.02E-01 |
| Child1 | 1.23E-01 | 9.31E-05 | 3.12E-03 | 1.27E-01 |
| Infant2 | 1.43E-01 | 1.08E-04 | 3.61E-03 | 1.46E-01 |
| Infant1 | 1.67E-01 | 1.26E-04 | 4.22E-03 | 1.71E-01 |

tvstand Full Analysis Results

Chemical: TCEP
Product/Article: Wood articles: hardwood floors, furniture
Use Environment: Residence - Living room
Scenario Description/Notes: Not provided

CEM Scenario Summary

Scenario Name and Definition

Scenario: tvstand
Chemical: TCEP
Product/Article: Wood articles: hardwood floors, furniture
Use Environment: Residence - Living room

Scenario Description/notes:

Models

Models for the Selected Product or Article:

- E6: Emission from Article Placed in Environment
- A_INH1: Calculation of Inhalation Dose from Article Exposure
- A_ING1: Ingestion after Inhalation (Article Model)
- A_ING2: Ingestion of Article Mouthed
- A_ING3: Incidental Dust Ingestion (Article Model)
- A_DER1: Dermal Dose from Direct Transfer from Vapor Phase to Skin
- A_DER2: Dermal Dose from Article where Skin Contact Occurs
- A_DER3: Dermal Dose from Skin Contact with Dust

Additional Article Parameters

Article Users: Adult Youth Child
Activity Pattern: SAH Part-time Full-time

Inputs

tvstand Full Analysis Results

Chemical: TCEP
 Product/Article: Wood articles: hardwood floors, furniture
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

| Location | Required Input | Value |
|--|---|----------|
| 1. Scenario | Background Air Concentration (mg/m3) | 0.00E+00 |
| 1. Scenario | Background Dust Concentration (ug/mg) | 0.00E+00 |
| 1. Scenario | Initial Concentration of SVOC in Article (mg/cm3) | 3.00E+01 |
| 1. Scenario | Weight Fraction of Chemical (-) | 3.00E-02 |
| 2. Inputs; a. Chemical Properties | Gas Phase Mass Transfer Coefficient (m/hr) | 1.87E+00 |
| 2. Inputs; a. Chemical Properties | Henry's Law Coefficient (atm/M) | 2.95E-06 |
| 2. Inputs; a. Chemical Properties | Log Octanol-air Partition Coefficient (-) | 7.86E+00 |
| 2. Inputs; a. Chemical Properties | Log Octanol-water partition coefficient (-) | 1.78E+00 |
| 2. Inputs; a. Chemical Properties | Molecular Weight (g/mol) | 2.85E+02 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Abraded Particle (m/hr): | 5.19E-01 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Dust (m/hr) | 9.70E-01 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Interior Surface (m/hr) | 8.79E-04 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, RP (m/hr) | 1.86E+00 |
| 2. Inputs; a. Chemical Properties | Saturation Concentration in Air (mg/m3) | 9.35E+02 |
| 2. Inputs; a. Chemical Properties | Solid-Air Partition Coefficient (-) | 6.33E+04 |
| 2. Inputs; a. Chemical Properties | Solid-Phase Diffusion Coefficient (m2/hr) | 3.47E-11 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, Abraded Particle(m3/mg) | 7.24E-04 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, Dust (m3/mg) | 7.24E-03 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, RP (m3/mg) | 2.90E-02 |
| 2. Inputs; a. Chemical Properties | Vapor Pressure (torr) | 6.10E-02 |
| 2. Inputs; a. Chemical Properties | Water Solubility (mg/mL) | 7.82E+00 |
| 2. Inputs; b. Product/Article Properties | Absorption Fraction, Acute (-) | 3.51E-01 |
| 2. Inputs; b. Product/Article Properties | Absorption Fraction, Chronic (-) | 3.51E-01 |
| 2. Inputs; b. Product/Article Properties | Adherence Factor (mg/cm2*event) | 4.00E-02 |
| 2. Inputs; b. Product/Article Properties | Area of Article Mouthed (cm2) | 1.00E+01 |
| 2. Inputs; b. Product/Article Properties | Average Molecule Diffusion per Contact (m) | 1.18E-03 |
| 2. Inputs; b. Product/Article Properties | Chemical Migration Rate (mg/cm2/hr) | 1.00E-01 |

tvstand Full Analysis Results

Chemical: TCEP
 Product/Article: Wood articles: hardwood floors, furniture
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

| | | |
|--|--|----------|
| 2. Inputs; b. Product/Article Properties | Density of Product/Article (g/cm ³) | 1.00E+00 |
| 2. Inputs; b. Product/Article Properties | Duration of Article Contact (min) | 1.20E+02 |
| 2. Inputs; b. Product/Article Properties | Frequency of Article Contact (events/day) | 1.00E+01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction - Dust (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction - TSP (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction, Abraded Particle (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Skin Permeability Coefficient (cm/hr) | 2.20E-03 |
| 2. Inputs; b. Product/Article Properties | Surface Area of Article (m ²) | 1.38E+00 |
| 2. Inputs; b. Product/Article Properties | Thickness of Article Surface Layer (m) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Transdermal Permeability Coefficient (m/hr) | 6.05E-04 |
| 2. Inputs; c. Environment Inputs | Abraded Particle Deposition Rate Constant (1/hr) | 2.34E+00 |
| 2. Inputs; c. Environment Inputs | Abraded Particle Resuspension Rate (1/hr) | 1.29E-04 |
| 2. Inputs; c. Environment Inputs | Ambient RP Concentration (mg/m ³) | 5.20E-02 |
| 2. Inputs; c. Environment Inputs | Area of Interior Surface (m ²) | 1.04E+02 |
| 2. Inputs; c. Environment Inputs | Cleaning Efficiency (-) | 4.60E-01 |
| 2. Inputs; c. Environment Inputs | Cleaning Frequency (per hour) | 6.00E-03 |
| 2. Inputs; c. Environment Inputs | Density of Particle, Dust (mg/m ³) | 2.00E+09 |
| 2. Inputs; c. Environment Inputs | Density of Particle, RP (mg/m ³) | 1.00E+09 |
| 2. Inputs; c. Environment Inputs | Deposition Rate, Dust (per hour) | 3.30E+00 |
| 2. Inputs; c. Environment Inputs | Deposition Rate, RP (per hour) | 1.00E+00 |
| 2. Inputs; c. Environment Inputs | Generation Rate of Abraded Particles (mg/hr) | 5.31E-03 |
| 2. Inputs; c. Environment Inputs | HVAC Filter Penetration for RP (-) | 5.00E-02 |
| 2. Inputs; c. Environment Inputs | Interzone Ventilation Rate (m ³ /hr) | 1.09E+02 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Floor Dust (mg/hr) | 2.53E+01 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Floor RP (mg/hr) | 0.00E+00 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Suspended Dust (mg/hr) | 1.18E+02 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Suspended RP (mg/hr) | 1.47E+01 |
| 2. Inputs; c. Environment Inputs | Radius of Abraded Particle (m) | 7.00E-05 |

tvstand Full Analysis Results

Chemical: TCEP
 Product/Article: Wood articles: hardwood floors, furniture
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

| | | |
|----------------------------------|-----------------------------------|----------|
| 2. Inputs; c. Environment Inputs | Radius of Particle, Dust (m) | 5.00E-04 |
| 2. Inputs; c. Environment Inputs | Radius of Particle, RP (m) | 5.00E-06 |
| 2. Inputs; c. Environment Inputs | Resuspension Rate, Dust (per day) | 2.10E-04 |
| 2. Inputs; c. Environment Inputs | Resuspension Rate, RP (per day) | 2.60E-05 |
| 2. Inputs; c. Environment Inputs | Thickness of Interior Surface (m) | 5.00E-03 |
| 2. Inputs; c. Environment Inputs | Use Environment Volume (m3) | 5.00E+01 |

Exposure Factors

| Receptor | Body Weight | Inhalation Rate After Use | Dust Ingest Rate | Surface Area to Body Weight | TC |
|-------------------------|-------------|---------------------------|------------------|-----------------------------|------|
| Adult (≥21 years) | 80 | 0.61 | 30 | 6.19389587073609 | 6800 |
| Youth (16-20 years) | 71.6 | 0.68 | 60 | 5.79608938547486 | 5576 |
| Youth (11-15 years) | 56.8 | 0.63 | 60 | 6.33802816901408 | 5576 |
| Child (6-10 years) | 31.8 | 0.5 | 60 | 8.0188679245283 | 3740 |
| Small Child (3-5 years) | 18.6 | 0.42 | 100 | 9.94623655913978 | 2652 |
| Infant (1-2 years) | 12.6 | 0.35 | 60 | 11.5079365079365 | 1972 |
| Infant (<1 year) | 7.8 | 0.23 | 30 | 13.4574468085106 | 1564 |

Notes: body weight = kg; dust ingest rate = mg/day; inhalation rate after use = m3/hr; surface area to body weight ratio = m2/kg; transfer coefficient(TC) = cm2/hr

| Receptor | Mouthing Dur | Exposure Dur-Chronic | Exposure Dur-Acute | Avg Time-Chronic | Avg Time-Acute |
|-------------------------|--------------|----------------------|--------------------|------------------|----------------|
| Adult (≥21 years) | 0 | 1 | 1 | 1 | 1 |
| Youth (16-20 years) | 0 | 1 | 1 | 1 | 1 |
| Youth (11-15 years) | 0 | 1 | 1 | 1 | 1 |
| Child (6-10 years) | 1.7 | 1 | 1 | 1 | 1 |
| Small Child (3-5 years) | 1.7 | 1 | 1 | 1 | 1 |
| Infant (1-2 years) | 8.5 | 1 | 1 | 1 | 1 |
| Infant (<1 year) | 10 | 1 | 1 | 1 | 1 |

Notes: mouthing duration = min/hr; averaging time - chronic = years; averaging time - acute = days; exposure duration - chronic = years; averaging time - acute = days

TCEP_woodfloor_0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Wood articles: hardwood floors, furniture
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

TCEP_woodfloor_0624: Combined Analysis Results

| Receptor | Inhalation | | Ingestion | | Dermal | | Total | |
|---------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|
| | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) |
| Lifetime_LADD | 0.00E+00 | 1.30E+00 | 0.00E+00 | 1.98E-02 | 0.00E+00 | 2.59E-01 | 0.00E+00 | 1.58E+00 |
| Adult | 1.80E+02 | 1.01E+00 | 1.07E-01 | 1.46E-03 | 5.42E-01 | 2.41E-01 | 1.81E+02 | 1.25E+00 |
| Youth2 | 2.25E+02 | 1.25E+00 | 2.39E-01 | 3.26E-03 | 5.07E-01 | 2.25E-01 | 2.25E+02 | 1.48E+00 |
| Youth1 | 2.62E+02 | 1.46E+00 | 3.02E-01 | 4.11E-03 | 5.55E-01 | 2.46E-01 | 2.63E+02 | 1.71E+00 |
| Child2 | 3.72E+02 | 2.07E+00 | 5.60E-01 | 2.87E-02 | 7.02E-01 | 3.12E-01 | 3.73E+02 | 2.41E+00 |
| Child1 | 5.34E+02 | 2.98E+00 | 1.57E+00 | 5.75E-02 | 8.71E-01 | 3.87E-01 | 5.36E+02 | 3.42E+00 |
| Infant2 | 6.57E+02 | 3.66E+00 | 1.63E+00 | 2.88E-01 | 1.01E+00 | 4.48E-01 | 6.59E+02 | 4.40E+00 |
| Infant1 | 6.97E+02 | 3.89E+00 | 1.61E+00 | 5.28E-01 | 1.18E+00 | 5.23E-01 | 7.00E+02 | 4.94E+00 |

TCEP_woodfloor_0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Wood articles: hardwood floors, furniture
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

TCEP_woodfloor_0624: Inhalation Results

Chronic Inhalation Results:

| Receptor | Steady-State Air SVOC Conc (ug/m3) | Background Air Chronic ADD (mg/kg-d) | Gas Phase Chronic ADD (mg/kg-d) | Steady-State RP SVOC Conc (ug/mg) | Particulate Phase Chronic ADD (mg/kg/d) | Inhalation Total Chronic ADD (mg/kg/d) |
|----------|------------------------------------|--------------------------------------|---------------------------------|-----------------------------------|---|--|
| Adult | 6.59e+03 | 0.00e+00 | 1.01e+00 | 2.34e+00 | 3.18e-05 | 1.01e+00 |
| Youth2 | 6.59e+03 | 0.00e+00 | 1.25e+00 | 2.34e+00 | 3.96e-05 | 1.25e+00 |
| Youth1 | 6.59e+03 | 0.00e+00 | 1.46e+00 | 2.34e+00 | 4.63e-05 | 1.46e+00 |
| Child2 | 6.59e+03 | 0.00e+00 | 2.07e+00 | 2.34e+00 | 6.56e-05 | 2.07e+00 |
| Child1 | 6.59e+03 | 0.00e+00 | 2.98e+00 | 2.34e+00 | 9.42e-05 | 2.98e+00 |
| Infant2 | 6.59e+03 | 0.00e+00 | 3.66e+00 | 2.34e+00 | 1.16e-04 | 3.66e+00 |
| Infant1 | 6.59e+03 | 0.00e+00 | 3.89e+00 | 2.34e+00 | 1.23e-04 | 3.89e+00 |

Time to background concentration- chronic (hr):

Acute Inhalation Results:

| Receptor | Background Air ADR (mg/kg/d) | Gas Phase ADR (mg/kg/d) | Particulate Phase ADR (mg/kg/d) | Inhalation Total ADR (mg/kg/d) |
|----------|------------------------------|-------------------------|---------------------------------|--------------------------------|
| Adult | 7.13e-04 | 1.80e+02 | 5.35e-03 | 1.80e+02 |
| Youth2 | 8.88e-04 | 2.25e+02 | 6.66e-03 | 2.25e+02 |
| Youth1 | 1.04e-03 | 2.62e+02 | 7.78e-03 | 2.62e+02 |
| Child2 | 1.47e-03 | 3.72e+02 | 1.10e-02 | 3.72e+02 |
| Child1 | 2.11e-03 | 5.34e+02 | 1.58e-02 | 5.34e+02 |
| Infant2 | 2.60e-03 | 6.57e+02 | 1.95e-02 | 6.57e+02 |
| Infant1 | 2.76e-03 | 6.97e+02 | 2.07e-02 | 6.97e+02 |

Time to background concentration- acute (hr):

TCEP_woodfloor_0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Wood articles: hardwood floors, furniture
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

TCEP_woodfloor_0624: Ingestion Results

Chronic Ingestion Results:

| Receptor | Background Dust Chronic ADD (mg/kg/d) | Mouthing Chronic ADD (mg/kg/d) | Ingestion After Inhalation Chronic ADD (mg/kg/d) | Incidental Dust Chronic ADD (mg/kg/d) | Maximum Incidental Dust Chronic ADD (mg/kg/d) |
|----------|---------------------------------------|--------------------------------|--|---------------------------------------|---|
| Adult | 0.00E+00 | 0.00E+00 | 4.24E-06 | 1.46E-03 | 1.07E+00 |
| Youth2 | 0.00E+00 | 0.00E+00 | 5.28E-06 | 3.26E-03 | 2.40E+00 |
| Youth1 | 0.00E+00 | 0.00E+00 | 6.17E-06 | 4.11E-03 | 3.02E+00 |
| Child2 | 0.00E+00 | 2.14E-02 | 8.75E-06 | 7.33E-03 | 5.40E+00 |
| Child1 | 0.00E+00 | 3.66E-02 | 1.26E-05 | 2.09E-02 | 1.54E+01 |
| Infant2 | 0.00E+00 | 2.70E-01 | 1.55E-05 | 1.85E-02 | 1.36E+01 |
| Infant1 | 0.00E+00 | 5.13E-01 | 1.64E-05 | 1.49E-02 | 1.10E+01 |

Acute Ingestion Results:

| Receptor | Background Dust ADR (mg/kg/d) | Mouthing ADR (mg/kg/d) | Ingestion After Inhalation ADR (mg/kg/d) | Incidental Dust ADR (mg/kg/d) | Maximum Incidental Dust ADR (mg/kg/d) |
|----------|-------------------------------|------------------------|--|-------------------------------|---------------------------------------|
| Adult | 0.00E+00 | 0.00E+00 | 7.13E-04 | 1.07E-01 | 1.07E+00 |
| Youth2 | 0.00E+00 | 0.00E+00 | 8.88E-04 | 2.38E-01 | 2.40E+00 |
| Youth1 | 0.00E+00 | 0.00E+00 | 1.04E-03 | 3.01E-01 | 3.02E+00 |
| Child2 | 0.00E+00 | 2.14E-02 | 1.47E-03 | 5.37E-01 | 5.40E+00 |
| Child1 | 0.00E+00 | 3.66E-02 | 2.11E-03 | 1.53E+00 | 1.54E+01 |
| Infant2 | 0.00E+00 | 2.70E-01 | 2.60E-03 | 1.36E+00 | 1.36E+01 |
| Infant1 | 0.00E+00 | 5.13E-01 | 2.76E-03 | 1.09E+00 | 1.10E+01 |

TCEP_woodfloor_0624 Full Analysis Results

Chemical: TCEP
Product/Article: Wood articles: hardwood floors, furniture
Use Environment: Residence - Living room
Scenario Description/Notes: Not provided

TCEP_woodfloor_0624: Dermal Results

Chronic Dermal Results:

| Receptor | Skin Contact Chronic ADD (mg/kg/d) | Vapor to Skin Chronic ADD (mg/kg/d) | Skin Contact with Dust Chronic ADD (mg/kg/d) | Total Chronic ADD (mg/kg/d) |
|----------|------------------------------------|-------------------------------------|--|-----------------------------|
| Adult | 2.37E-01 | 4.94E-05 | 4.05E-03 | 2.41E-01 |
| Youth2 | 2.22E-01 | 4.62E-05 | 3.79E-03 | 2.25E-01 |
| Youth1 | 2.42E-01 | 5.05E-05 | 4.14E-03 | 2.46E-01 |
| Child2 | 3.06E-01 | 6.39E-05 | 5.24E-03 | 3.12E-01 |
| Child1 | 3.80E-01 | 7.93E-05 | 6.51E-03 | 3.87E-01 |
| Infant2 | 4.40E-01 | 9.18E-05 | 7.53E-03 | 4.48E-01 |
| Infant1 | 5.15E-01 | 1.07E-04 | 8.81E-03 | 5.23E-01 |

Acute Dermal Results:

| Receptor | Skin Contact ADR (mg/kg/d) | Vapor to Skin ADR (mg/kg/d) | Skin Contact with Dust ADR (mg/kg/d) | Total ADR (mg/kg/d) |
|----------|----------------------------|-----------------------------|--------------------------------------|---------------------|
| Adult | 2.37E-01 | 8.86E-03 | 2.97E-01 | 5.42E-01 |
| Youth2 | 2.22E-01 | 8.29E-03 | 2.78E-01 | 5.07E-01 |
| Youth1 | 2.42E-01 | 9.06E-03 | 3.04E-01 | 5.55E-01 |
| Child2 | 3.06E-01 | 1.15E-02 | 3.84E-01 | 7.02E-01 |
| Child1 | 3.80E-01 | 1.42E-02 | 4.77E-01 | 8.71E-01 |
| Infant2 | 4.40E-01 | 1.65E-02 | 5.51E-01 | 1.01E+00 |
| Infant1 | 5.15E-01 | 1.93E-02 | 6.45E-01 | 1.18E+00 |

TCEP_woodfloor_0624 Full Analysis Results

Chemical: TCEP
Product/Article: Wood articles: hardwood floors, furniture
Use Environment: Residence - Living room
Scenario Description/Notes: Not provided

CEM Scenario Summary

Scenario Name and Definition

Scenario: TCEP_woodfloor_0624
Chemical: TCEP
Product/Article: Wood articles: hardwood floors, furniture
Use Environment: Residence - Living room

Scenario Description/notes:

Models

Models for the Selected Product or Article:

- E6: Emission from Article Placed in Environment
- A_INH1: Calculation of Inhalation Dose from Article Exposure
- A_ING1: Ingestion after Inhalation (Article Model)
- A_ING2: Ingestion of Article Mouthed
- A_ING3: Incidental Dust Ingestion (Article Model)
- A_DER1: Dermal Dose from Direct Transfer from Vapor Phase to Skin
- A_DER2: Dermal Dose from Article where Skin Contact Occurs
- A_DER3: Dermal Dose from Skin Contact with Dust

Additional Article Parameters

Article Users: Adult Youth Child
Activity Pattern: SAH Part-time Full-time

Inputs

TCEP_woodfloor_0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Wood articles: hardwood floors, furniture
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

| Location | Required Input | Value |
|--|---|----------|
| 1. Scenario | Background Air Concentration (mg/m3) | 0.00E+00 |
| 1. Scenario | Background Dust Concentration (ug/mg) | 0.00E+00 |
| 1. Scenario | Initial Concentration of SVOC in Article (mg/cm3) | 3.00E+01 |
| 1. Scenario | Weight Fraction of Chemical (-) | 3.00E-02 |
| 2. Inputs; a. Chemical Properties | Gas Phase Mass Transfer Coefficient (m/hr) | 1.87E+00 |
| 2. Inputs; a. Chemical Properties | Henry's Law Coefficient (atm/M) | 2.95E-06 |
| 2. Inputs; a. Chemical Properties | Log Octanol-air Partition Coefficient (-) | 7.86E+00 |
| 2. Inputs; a. Chemical Properties | Log Octanol-water partition coefficient (-) | 1.78E+00 |
| 2. Inputs; a. Chemical Properties | Molecular Weight (g/mol) | 2.85E+02 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Abraded Particle (m/hr): | 5.19E-01 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Dust (m/hr) | 9.70E-01 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Interior Surface (m/hr) | 8.79E-04 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, RP (m/hr) | 1.86E+00 |
| 2. Inputs; a. Chemical Properties | Saturation Concentration in Air (mg/m3) | 9.35E+02 |
| 2. Inputs; a. Chemical Properties | Solid-Air Partition Coefficient (-) | 6.33E+04 |
| 2. Inputs; a. Chemical Properties | Solid-Phase Diffusion Coefficient (m2/hr) | 3.47E-11 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, Abraded Particle(m3/mg) | 7.24E-04 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, Dust (m3/mg) | 7.24E-03 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, RP (m3/mg) | 2.90E-02 |
| 2. Inputs; a. Chemical Properties | Vapor Pressure (torr) | 6.10E-02 |
| 2. Inputs; a. Chemical Properties | Water Solubility (mg/mL) | 7.82E+00 |
| 2. Inputs; b. Product/Article Properties | Absorption Fraction, Acute (-) | 3.51E-01 |
| 2. Inputs; b. Product/Article Properties | Absorption Fraction, Chronic (-) | 3.51E-01 |
| 2. Inputs; b. Product/Article Properties | Adherence Factor (mg/cm2*event) | 4.00E-02 |
| 2. Inputs; b. Product/Article Properties | Area of Article Mouthed (cm2) | 1.00E+01 |
| 2. Inputs; b. Product/Article Properties | Average Molecule Diffusion per Contact (m) | 3.63E-03 |
| 2. Inputs; b. Product/Article Properties | Chemical Migration Rate (mg/cm2/hr) | 1.00E-01 |

TCEP_woodfloor_0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Wood articles: hardwood floors, furniture
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

| | | |
|--|--|----------|
| 2. Inputs; b. Product/Article Properties | Density of Product/Article (g/cm ³) | 1.00E+00 |
| 2. Inputs; b. Product/Article Properties | Duration of Article Contact (min) | 1.14E+03 |
| 2. Inputs; b. Product/Article Properties | Frequency of Article Contact (events/day) | 1.00E+01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction - Dust (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction - TSP (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction, Abraded Particle (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Skin Permeability Coefficient (cm/hr) | 2.20E-03 |
| 2. Inputs; b. Product/Article Properties | Surface Area of Article (m ²) | 2.11E+02 |
| 2. Inputs; b. Product/Article Properties | Thickness of Article Surface Layer (m) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Transdermal Permeability Coefficient (m/hr) | 6.05E-04 |
| 2. Inputs; c. Environment Inputs | Abraded Particle Deposition Rate Constant (1/hr) | 2.34E+00 |
| 2. Inputs; c. Environment Inputs | Abraded Particle Resuspension Rate (1/hr) | 1.29E-04 |
| 2. Inputs; c. Environment Inputs | Ambient RP Concentration (mg/m ³) | 5.20E-02 |
| 2. Inputs; c. Environment Inputs | Area of Interior Surface (m ²) | 1.04E+02 |
| 2. Inputs; c. Environment Inputs | Cleaning Efficiency (-) | 4.60E-01 |
| 2. Inputs; c. Environment Inputs | Cleaning Frequency (per hour) | 6.00E-03 |
| 2. Inputs; c. Environment Inputs | Density of Particle, Dust (mg/m ³) | 2.00E+09 |
| 2. Inputs; c. Environment Inputs | Density of Particle, RP (mg/m ³) | 1.00E+09 |
| 2. Inputs; c. Environment Inputs | Deposition Rate, Dust (per hour) | 3.30E+00 |
| 2. Inputs; c. Environment Inputs | Deposition Rate, RP (per hour) | 1.00E+00 |
| 2. Inputs; c. Environment Inputs | Generation Rate of Abraded Particles (mg/hr) | 5.31E-03 |
| 2. Inputs; c. Environment Inputs | HVAC Filter Penetration for RP (-) | 5.00E-02 |
| 2. Inputs; c. Environment Inputs | Interzone Ventilation Rate (m ³ /hr) | 1.09E+02 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Floor Dust (mg/hr) | 2.53E+01 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Floor RP (mg/hr) | 0.00E+00 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Suspended Dust (mg/hr) | 1.18E+02 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Suspended RP (mg/hr) | 1.47E+01 |
| 2. Inputs; c. Environment Inputs | Radius of Abraded Particle (m) | 7.00E-05 |

TCEP_woodfloor_0624 Full Analysis Results

Chemical: TCEP
 Product/Article: Wood articles: hardwood floors, furniture
 Use Environment: Residence - Living room
 Scenario Description/Notes: Not provided

| | | |
|----------------------------------|-----------------------------------|----------|
| 2. Inputs; c. Environment Inputs | Radius of Particle, Dust (m) | 5.00E-04 |
| 2. Inputs; c. Environment Inputs | Radius of Particle, RP (m) | 5.00E-06 |
| 2. Inputs; c. Environment Inputs | Resuspension Rate, Dust (per day) | 2.10E-04 |
| 2. Inputs; c. Environment Inputs | Resuspension Rate, RP (per day) | 2.60E-05 |
| 2. Inputs; c. Environment Inputs | Thickness of Interior Surface (m) | 5.00E-03 |
| 2. Inputs; c. Environment Inputs | Use Environment Volume (m3) | 5.00E+01 |

Exposure Factors

| Receptor | Body Weight | Inhalation Rate After Use | Dust Ingest Rate | Surface Area to Body Weight | TC |
|-------------------------|-------------|---------------------------|------------------|-----------------------------|------|
| Youth (16-20 years) | 71.6 | 0.68 | 60 | 5.79608938547486 | 5576 |
| Youth (11-15 years) | 56.8 | 0.63 | 60 | 6.33802816901408 | 5576 |
| Child (6-10 years) | 31.8 | 0.5 | 60 | 8.0188679245283 | 3740 |
| Small Child (3-5 years) | 18.6 | 0.42 | 100 | 9.94623655913978 | 2652 |
| Infant (1-2 years) | 12.6 | 0.35 | 60 | 11.5079365079365 | 1972 |
| Infant (<1 year) | 7.8 | 0.23 | 30 | 13.4574468085106 | 1564 |
| Adult (≥21 years) | 80 | 0.61 | 30 | 6.19389587073609 | 6800 |

Notes: body weight = kg; dust ingest rate = mg/day; inhalation rate after use = m3/hr; surface area to body weight ratio = m2/kg; transfer coefficient(TC) = cm2/hr

| Receptor | Mouthing Dur | Exposure Dur-Chronic | Exposure Dur-Acute | Avg Time-Chronic | Avg Time-Acute |
|-------------------------|--------------|----------------------|--------------------|------------------|----------------|
| Youth (16-20 years) | 0 | 1 | 1 | 1 | 1 |
| Youth (11-15 years) | 0 | 1 | 1 | 1 | 1 |
| Child (6-10 years) | 1.7 | 1 | 1 | 1 | 1 |
| Small Child (3-5 years) | 1.7 | 1 | 1 | 1 | 1 |
| Infant (1-2 years) | 8.5 | 1 | 1 | 1 | 1 |
| Infant (<1 year) | 10 | 1 | 1 | 1 | 1 |
| Adult (≥21 years) | 0 | 1 | 1 | 1 | 1 |

Notes: mouthing duration = min/hr; averaging time - chronic = years; averaging time - acute = days; exposure duration - chronic = years; averaging time - acute = days

TCEP_carpet Full Analysis Results

Chemical: TCEP
 Product/Article: Fabrics: curtains, rugs, wall coverings
 Use Environment: Residence - Whole house
 Scenario Description/Notes: Not provided

TCEP_carpet: Combined Analysis Results

| Receptor | Inhalation | | Ingestion | | Dermal | | Total | |
|---------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|---------------------------|--------------------------------------|
| | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) | Acute Dose Rate (mg/kg/d) | Chronic Average Daily Dose (mg/kg/d) |
| Lifetime_LADD | 0.00E+00 | 6.04E-03 | 0.00E+00 | 1.63E-02 | 0.00E+00 | 3.77E-04 | 0.00E+00 | 2.27E-02 |
| Adult | 5.12E-02 | 4.67E-03 | 2.43E-04 | 2.48E-05 | 6.56E-04 | 3.50E-04 | 5.21E-02 | 5.04E-03 |
| Youth2 | 6.38E-02 | 5.82E-03 | 5.43E-04 | 5.54E-05 | 6.13E-04 | 3.28E-04 | 6.50E-02 | 6.20E-03 |
| Youth1 | 7.45E-02 | 6.79E-03 | 6.84E-04 | 6.98E-05 | 6.71E-04 | 3.58E-04 | 7.59E-02 | 7.22E-03 |
| Child2 | 1.06E-01 | 9.63E-03 | 2.26E-02 | 2.15E-02 | 8.49E-04 | 4.53E-04 | 1.29E-01 | 3.16E-02 |
| Child1 | 1.52E-01 | 1.38E-02 | 4.00E-02 | 3.69E-02 | 1.05E-03 | 5.63E-04 | 1.93E-01 | 5.13E-02 |
| Infant2 | 1.87E-01 | 1.70E-02 | 2.73E-01 | 2.70E-01 | 1.22E-03 | 6.51E-04 | 4.61E-01 | 2.88E-01 |
| Infant1 | 1.98E-01 | 1.81E-02 | 5.15E-01 | 5.13E-01 | 1.42E-03 | 7.61E-04 | 7.15E-01 | 5.32E-01 |

TCEP_carpet Full Analysis Results

Chemical: TCEP
 Product/Article: Fabrics: curtains, rugs, wall coverings
 Use Environment: Residence - Whole house
 Scenario Description/Notes: Not provided

TCEP_carpet: Inhalation Results

Chronic Inhalation Results:

| Receptor | Steady-State Air SVOC Conc (ug/m3) | Background Air Chronic ADD (mg/kg-d) | Gas Phase Chronic ADD (mg/kg-d) | Steady-State RP SVOC Conc (ug/mg) | Particulate Phase Chronic ADD (mg/kg/d) | Inhalation Total Chronic ADD (mg/kg/d) |
|----------|------------------------------------|--------------------------------------|---------------------------------|-----------------------------------|---|--|
| Adult | 3.06e+01 | 0.00e+00 | 4.67e-03 | 3.79e-02 | 1.67e-07 | 4.67e-03 |
| Youth2 | 3.06e+01 | 0.00e+00 | 5.82e-03 | 3.79e-02 | 2.08e-07 | 5.82e-03 |
| Youth1 | 3.06e+01 | 0.00e+00 | 6.79e-03 | 3.79e-02 | 2.43e-07 | 6.79e-03 |
| Child2 | 3.06e+01 | 0.00e+00 | 9.63e-03 | 3.79e-02 | 3.45e-07 | 9.63e-03 |
| Child1 | 3.06e+01 | 0.00e+00 | 1.38e-02 | 3.79e-02 | 4.95e-07 | 1.38e-02 |
| Infant2 | 3.06e+01 | 0.00e+00 | 1.70e-02 | 3.79e-02 | 6.09e-07 | 1.70e-02 |
| Infant1 | 3.06e+01 | 0.00e+00 | 1.81e-02 | 3.79e-02 | 6.46e-07 | 1.81e-02 |

Time to background concentration- chronic (hr):

Acute Inhalation Results:

| Receptor | Background Air ADR (mg/kg/d) | Gas Phase ADR (mg/kg/d) | Particulate Phase ADR (mg/kg/d) | Inhalation Total ADR (mg/kg/d) |
|----------|------------------------------|-------------------------|---------------------------------|--------------------------------|
| Adult | 2.31e-07 | 5.12e-02 | 1.73e-06 | 5.12e-02 |
| Youth2 | 2.88e-07 | 6.38e-02 | 2.16e-06 | 6.38e-02 |
| Youth1 | 3.36e-07 | 7.45e-02 | 2.52e-06 | 7.45e-02 |
| Child2 | 4.76e-07 | 1.06e-01 | 3.57e-06 | 1.06e-01 |
| Child1 | 6.84e-07 | 1.52e-01 | 5.13e-06 | 1.52e-01 |
| Infant2 | 8.41e-07 | 1.87e-01 | 6.31e-06 | 1.87e-01 |
| Infant1 | 8.93e-07 | 1.98e-01 | 6.70e-06 | 1.98e-01 |

Time to background concentration- acute (hr):

TCEP_carpet Full Analysis Results

Chemical: TCEP
 Product/Article: Fabrics: curtains, rugs, wall coverings
 Use Environment: Residence - Whole house
 Scenario Description/Notes: Not provided

TCEP_carpet: Ingestion Results

Chronic Ingestion Results:

| Receptor | Background Dust Chronic ADD (mg/kg/d) | Mouthing Chronic ADD (mg/kg/d) | Ingestion After Inhalation Chronic ADD (mg/kg/d) | Incidental Dust Chronic ADD (mg/kg/d) | Maximum Incidental Dust Chronic ADD (mg/kg/d) |
|----------|---------------------------------------|--------------------------------|--|---------------------------------------|---|
| Adult | 0.00E+00 | 0.00E+00 | 2.23E-08 | 2.48E-05 | 1.43E-03 |
| Youth2 | 0.00E+00 | 0.00E+00 | 2.78E-08 | 5.54E-05 | 3.20E-03 |
| Youth1 | 0.00E+00 | 0.00E+00 | 3.24E-08 | 6.98E-05 | 4.03E-03 |
| Child2 | 0.00E+00 | 2.14E-02 | 4.60E-08 | 1.25E-04 | 7.20E-03 |
| Child1 | 0.00E+00 | 3.66E-02 | 6.60E-08 | 3.55E-04 | 2.05E-02 |
| Infant2 | 0.00E+00 | 2.70E-01 | 8.12E-08 | 3.15E-04 | 1.82E-02 |
| Infant1 | 0.00E+00 | 5.13E-01 | 8.62E-08 | 2.54E-04 | 1.47E-02 |

Acute Ingestion Results:

| Receptor | Background Dust ADR (mg/kg/d) | Mouthing ADR (mg/kg/d) | Ingestion After Inhalation ADR (mg/kg/d) | Incidental Dust ADR (mg/kg/d) | Maximum Incidental Dust ADR (mg/kg/d) |
|----------|-------------------------------|------------------------|--|-------------------------------|---------------------------------------|
| Adult | 0.00E+00 | 0.00E+00 | 2.31E-07 | 2.43E-04 | 1.43E-03 |
| Youth2 | 0.00E+00 | 0.00E+00 | 2.88E-07 | 5.42E-04 | 3.20E-03 |
| Youth1 | 0.00E+00 | 0.00E+00 | 3.36E-07 | 6.84E-04 | 4.03E-03 |
| Child2 | 0.00E+00 | 2.14E-02 | 4.76E-07 | 1.22E-03 | 7.20E-03 |
| Child1 | 0.00E+00 | 3.66E-02 | 6.84E-07 | 3.48E-03 | 2.05E-02 |
| Infant2 | 0.00E+00 | 2.70E-01 | 8.41E-07 | 3.08E-03 | 1.82E-02 |
| Infant1 | 0.00E+00 | 5.13E-01 | 8.93E-07 | 2.49E-03 | 1.47E-02 |

TCEP_carpet Full Analysis Results

Chemical: TCEP
Product/Article: Fabrics: curtains, rugs, wall coverings
Use Environment: Residence - Whole house
Scenario Description/Notes: Not provided

TCEP_carpet: Dermal Results

Chronic Dermal Results:

| Receptor | Skin Contact Chronic ADD (mg/kg/d) | Vapor to Skin Chronic ADD (mg/kg/d) | Skin Contact with Dust Chronic ADD (mg/kg/d) | Total Chronic ADD (mg/kg/d) |
|----------|------------------------------------|-------------------------------------|--|-----------------------------|
| Adult | 3.16E-04 | 2.29E-07 | 3.45E-05 | 3.50E-04 |
| Youth2 | 2.95E-04 | 2.15E-07 | 3.22E-05 | 3.28E-04 |
| Youth1 | 3.23E-04 | 2.35E-07 | 3.52E-05 | 3.58E-04 |
| Child2 | 4.09E-04 | 2.97E-07 | 4.46E-05 | 4.53E-04 |
| Child1 | 5.07E-04 | 3.68E-07 | 5.53E-05 | 5.63E-04 |
| Infant2 | 5.87E-04 | 4.26E-07 | 6.40E-05 | 6.51E-04 |
| Infant1 | 6.86E-04 | 4.99E-07 | 7.49E-05 | 7.61E-04 |

Acute Dermal Results:

| Receptor | Skin Contact ADR (mg/kg/d) | Vapor to Skin ADR (mg/kg/d) | Skin Contact with Dust ADR (mg/kg/d) | Total ADR (mg/kg/d) |
|----------|----------------------------|-----------------------------|--------------------------------------|---------------------|
| Adult | 3.16E-04 | 2.52E-06 | 3.38E-04 | 6.56E-04 |
| Youth2 | 2.95E-04 | 2.35E-06 | 3.16E-04 | 6.13E-04 |
| Youth1 | 3.23E-04 | 2.57E-06 | 3.45E-04 | 6.71E-04 |
| Child2 | 4.09E-04 | 3.26E-06 | 4.37E-04 | 8.49E-04 |
| Child1 | 5.07E-04 | 4.04E-06 | 5.42E-04 | 1.05E-03 |
| Infant2 | 5.87E-04 | 4.68E-06 | 6.27E-04 | 1.22E-03 |
| Infant1 | 6.86E-04 | 5.47E-06 | 7.33E-04 | 1.42E-03 |

TCEP_carpet Full Analysis Results

Chemical: TCEP
Product/Article: Fabrics: curtains, rugs, wall coverings
Use Environment: Residence - Whole house
Scenario Description/Notes: Not provided

CEM Scenario Summary

Scenario Name and Definition

Scenario: TCEP_carpet
Chemical: TCEP
Product/Article: Fabrics: curtains, rugs, wall coverings
Use Environment: Residence - Whole house

Scenario Description/notes:

Models

Models for the Selected Product or Article:

- E6: Emission from Article Placed in Environment
- A_INH1: Calculation of Inhalation Dose from Article Exposure
- A_ING1: Ingestion after Inhalation (Article Model)
- A_ING2: Ingestion of Article Mouthed
- A_ING3: Incidental Dust Ingestion (Article Model)
- A_DER1: Dermal Dose from Direct Transfer from Vapor Phase to Skin
- A_DER2: Dermal Dose from Article where Skin Contact Occurs
- A_DER3: Dermal Dose from Skin Contact with Dust

Additional Article Parameters

Article Users: Adult Youth Child
Activity Pattern: SAH Part-time Full-time

Inputs

TCEP_carpet Full Analysis Results

Chemical: TCEP
 Product/Article: Fabrics: curtains, rugs, wall coverings
 Use Environment: Residence - Whole house
 Scenario Description/Notes: Not provided

| Location | Required Input | Value |
|--|---|----------|
| 1. Scenario | Background Air Concentration (mg/m3) | 0.00E+00 |
| 1. Scenario | Background Dust Concentration (ug/mg) | 0.00E+00 |
| 1. Scenario | Initial Concentration of SVOC in Article (mg/cm3) | 4.00E-02 |
| 1. Scenario | Weight Fraction of Chemical (-) | 2.00E-04 |
| 2. Inputs; a. Chemical Properties | Gas Phase Mass Transfer Coefficient (m/hr) | 1.87E+00 |
| 2. Inputs; a. Chemical Properties | Henry's Law Coefficient (atm/M) | 2.95E-06 |
| 2. Inputs; a. Chemical Properties | Log Octanol-air Partition Coefficient (-) | 7.86E+00 |
| 2. Inputs; a. Chemical Properties | Log Octanol-water partition coefficient (-) | 1.78E+00 |
| 2. Inputs; a. Chemical Properties | Molecular Weight (g/mol) | 2.85E+02 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Abraded Particle (m/hr): | 5.19E-01 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Dust (m/hr) | 9.70E-01 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, Interior Surface (m/hr) | 8.79E-04 |
| 2. Inputs; a. Chemical Properties | Overall Mass Transfer Coefficient, RP (m/hr) | 1.86E+00 |
| 2. Inputs; a. Chemical Properties | Saturation Concentration in Air (mg/m3) | 9.35E+02 |
| 2. Inputs; a. Chemical Properties | Solid-Air Partition Coefficient (-) | 6.33E+04 |
| 2. Inputs; a. Chemical Properties | Solid-Phase Diffusion Coefficient (m2/hr) | 3.47E-11 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, Abraded Particle(m3/mg) | 3.62E-03 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, Dust (m3/mg) | 7.24E-03 |
| 2. Inputs; a. Chemical Properties | SVOC Partition Coefficient, RP (m3/mg) | 2.90E-02 |
| 2. Inputs; a. Chemical Properties | Vapor Pressure (torr) | 6.10E-02 |
| 2. Inputs; a. Chemical Properties | Water Solubility (mg/mL) | 7.82E+00 |
| 2. Inputs; b. Product/Article Properties | Absorption Fraction, Acute (-) | 3.51E-01 |
| 2. Inputs; b. Product/Article Properties | Absorption Fraction, Chronic (-) | 3.51E-01 |
| 2. Inputs; b. Product/Article Properties | Adherence Factor (mg/cm2*event) | 4.00E-02 |
| 2. Inputs; b. Product/Article Properties | Area of Article Mouthed (cm2) | 1.00E+01 |
| 2. Inputs; b. Product/Article Properties | Average Molecule Diffusion per Contact (m) | 3.63E-03 |
| 2. Inputs; b. Product/Article Properties | Chemical Migration Rate (mg/cm2/hr) | 1.00E-01 |

TCEP_carpet Full Analysis Results

Chemical: TCEP
 Product/Article: Fabrics: curtains, rugs, wall coverings
 Use Environment: Residence - Whole house
 Scenario Description/Notes: Not provided

| | | |
|--|--|----------|
| 2. Inputs; b. Product/Article Properties | Density of Product/Article (g/cm ³) | 2.00E-01 |
| 2. Inputs; b. Product/Article Properties | Duration of Article Contact (min) | 1.14E+03 |
| 2. Inputs; b. Product/Article Properties | Frequency of Article Contact (events/day) | 5.00E+00 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction - Dust (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction - TSP (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Ingestion Fraction, Abraded Particle (-) | 1.00E-01 |
| 2. Inputs; b. Product/Article Properties | Skin Permeability Coefficient (cm/hr) | 2.20E-03 |
| 2. Inputs; b. Product/Article Properties | Surface Area of Article (m ²) | 1.60E+00 |
| 2. Inputs; b. Product/Article Properties | Thickness of Article Surface Layer (m) | 5.00E-01 |
| 2. Inputs; b. Product/Article Properties | Transdermal Permeability Coefficient (m/hr) | 6.05E-04 |
| 2. Inputs; c. Environment Inputs | Abraded Particle Deposition Rate Constant (1/hr) | 2.34E+00 |
| 2. Inputs; c. Environment Inputs | Abraded Particle Resuspension Rate (1/hr) | 1.29E-04 |
| 2. Inputs; c. Environment Inputs | Ambient RP Concentration (mg/m ³) | 5.20E-02 |
| 2. Inputs; c. Environment Inputs | Area of Interior Surface (m ²) | 1.02E+03 |
| 2. Inputs; c. Environment Inputs | Cleaning Efficiency (-) | 4.60E-01 |
| 2. Inputs; c. Environment Inputs | Cleaning Frequency (per hour) | 6.00E-03 |
| 2. Inputs; c. Environment Inputs | Density of Particle, Dust (mg/m ³) | 2.00E+09 |
| 2. Inputs; c. Environment Inputs | Density of Particle, RP (mg/m ³) | 1.00E+09 |
| 2. Inputs; c. Environment Inputs | Deposition Rate, Dust (per hour) | 3.30E+00 |
| 2. Inputs; c. Environment Inputs | Deposition Rate, RP (per hour) | 1.00E+00 |
| 2. Inputs; c. Environment Inputs | Generation Rate of Abraded Particles (mg/hr) | 5.31E-03 |
| 2. Inputs; c. Environment Inputs | HVAC Filter Penetration for RP (-) | 5.00E-02 |
| 2. Inputs; c. Environment Inputs | Interzone Ventilation Rate (m ³ /hr) | 1.00E-30 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Floor Dust (mg/hr) | 2.53E+01 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Floor RP (mg/hr) | 0.00E+00 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Suspended Dust (mg/hr) | 1.18E+02 |
| 2. Inputs; c. Environment Inputs | Mass Generation Rate, Suspended RP (mg/hr) | 1.47E+01 |
| 2. Inputs; c. Environment Inputs | Radius of Abraded Particle (m) | 7.00E-05 |

TCEP_carpet Full Analysis Results

Chemical: TCEP
 Product/Article: Fabrics: curtains, rugs, wall coverings
 Use Environment: Residence - Whole house
 Scenario Description/Notes: Not provided

| | | |
|----------------------------------|-----------------------------------|----------|
| 2. Inputs; c. Environment Inputs | Radius of Particle, Dust (m) | 5.00E-04 |
| 2. Inputs; c. Environment Inputs | Radius of Particle, RP (m) | 5.00E-06 |
| 2. Inputs; c. Environment Inputs | Resuspension Rate, Dust (per day) | 2.10E-04 |
| 2. Inputs; c. Environment Inputs | Resuspension Rate, RP (per day) | 2.60E-05 |
| 2. Inputs; c. Environment Inputs | Thickness of Interior Surface (m) | 5.00E-03 |
| 2. Inputs; c. Environment Inputs | Use Environment Volume (m3) | 4.92E+02 |

Exposure Factors

| Receptor | Body Weight | Inhalation Rate After Use | Dust Ingest Rate | Surface Area to Body Weight | TC |
|-------------------------|-------------|---------------------------|------------------|-----------------------------|------|
| Adult (≥21 years) | 80 | 0.61 | 30 | 6.19389587073609 | 6800 |
| Youth (16-20 years) | 71.6 | 0.68 | 60 | 5.79608938547486 | 5576 |
| Youth (11-15 years) | 56.8 | 0.63 | 60 | 6.33802816901408 | 5576 |
| Child (6-10 years) | 31.8 | 0.5 | 60 | 8.0188679245283 | 3740 |
| Small Child (3-5 years) | 18.6 | 0.42 | 100 | 9.94623655913978 | 2652 |
| Infant (1-2 years) | 12.6 | 0.35 | 60 | 11.5079365079365 | 1972 |
| Infant (<1 year) | 7.8 | 0.23 | 30 | 13.4574468085106 | 1564 |

Notes: body weight = kg; dust ingest rate = mg/day; inhalation rate after use = m3/hr; surface area to body weight ratio = m2/kg; transfer coefficient(TC) = cm2/hr

| Receptor | Mouthing Dur | Exposure Dur-Chronic | Exposure Dur-Acute | Avg Time-Chronic | Avg Time-Acute |
|-------------------------|--------------|----------------------|--------------------|------------------|----------------|
| Adult (≥21 years) | 0 | 1 | 1 | 1 | 1 |
| Youth (16-20 years) | 0 | 1 | 1 | 1 | 1 |
| Youth (11-15 years) | 0 | 1 | 1 | 1 | 1 |
| Child (6-10 years) | 1.7 | 1 | 1 | 1 | 1 |
| Small Child (3-5 years) | 1.7 | 1 | 1 | 1 | 1 |
| Infant (1-2 years) | 8.5 | 1 | 1 | 1 | 1 |
| Infant (<1 year) | 10 | 1 | 1 | 1 | 1 |

Notes: mouthing duration = min/hr; averaging time - chronic = years; averaging time - acute = days; exposure duration - chronic = years; averaging time - acute = days