

SARA-ICE Summary Report

Model Run:
OECD TG 497 Defined Approach (version 1.0)
March 16, 2026

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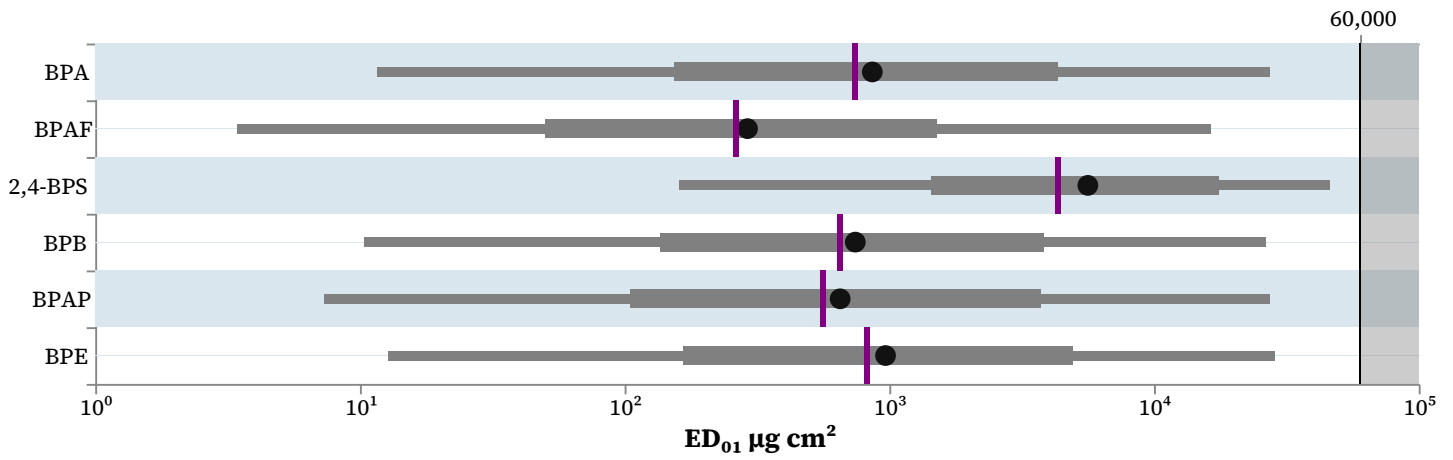
1 Introduction

This report includes chemical summaries for SARA-ICE estimates generated on March 16, 2026 with SARA-ICE OECD TG 497 Defined Approach (version 1.0).

1.1 Outputs Key

| Field | Description |
|-----------------------|----------------------------------------------------------------------------------------------|
| Substance | Name of Chemical Substance |
| CASRN | Chemical Abstracts Service Registry Number (CAS RN or CAS Number) |
| POD | (Point of Departure) geometric mean of the ED ₀₁ predicated on being a sensitizer |
| ED ₀₁ 5th | 5th Percentile of the ED ₀₁ distribution (µg/cm ²) |
| ED ₀₁ 50th | 50th Percentile of the ED ₀₁ distribution (µg/cm ²) |
| ED ₀₁ 95th | 95th Percentile of the ED ₀₁ distribution (µg/cm ²) |

2 Summary



2.1 Summary Key

| Mark | Description |
|----------------------|-----------------------------------------------------|
| Thin Gray Line | Centered 90% credible intervals of ED ₀₁ |
| Thick Gray Line | Centered 50% credible intervals of ED ₀₁ |
| Black Bullet | Median of ED ₀₁ |
| Vertical Purple Line | Point of Departure |

3 Individual Chemicals

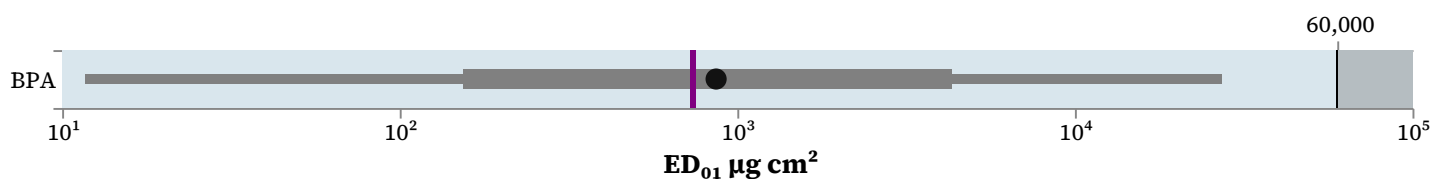
3.1 BPA (80-05-7)

3.1.1 SARA-ICE Inputs

| DPRA | | | |
|----------------------------------|----------------------------------|---------------------------|-----------------------|
| Depletion Lys (%) | Depletion Cys (%) | Reference | |
| 0.9 | 0.5 | BRT-NIEHS unpublished | |
| KeratinoSens | | | |
| IC50 (μM) | EC1.5 (μM) | Reference | |
| 14.7710487977 | 1.8349666103 | BRT-NIEHS unpublished | |
| h-CLAT | | | |
| CD54, EC200 ($\mu\text{g/ml}$) | CD86, EC150 ($\mu\text{g/ml}$) | CV75 ($\mu\text{g/ml}$) | Reference |
| 14.2838143927 | >43 | 35.85 | BRT-NIEHS unpublished |
| 25.7179574047 | >43 | 35.85 | BRT-NIEHS unpublished |

3.1.2 SARA-ICE OECD TG 497 Defined Approach (version 1.0) Outputs

| POD | ED ₀₁ 5th | ED ₀₁ 50th | ED ₀₁ 95th |
|-----|----------------------|-----------------------|-----------------------|
| 740 | 12 | 870 | 27,000 |



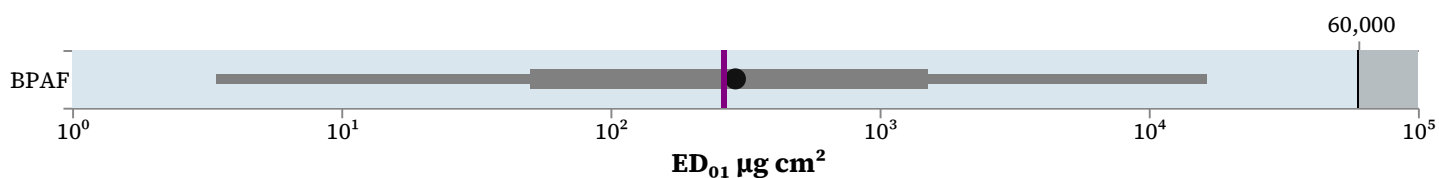
3.2 BPAF (1478-61-1)

3.2.1 SARA-ICE Inputs

| DPRA | | | |
|---------------------|---------------------|-----------------------|-----------------------|
| Depletion Lys (%) | Depletion Cys (%) | Reference | |
| 1.1 | 0 | BRT-NIEHS unpublished | |
| KeratinoSens | | | |
| IC50 (μM) | EC1.5 (μM) | Reference | |
| 1.2464185196 | 0.5032811065 | BRT-NIEHS unpublished | |
| h-CLAT | | | |
| CD54, EC200 (μg/ml) | CD86, EC150 (μg/ml) | CV75 (μg/ml) | Reference |
| 10.68856359 | 9.4360271079 | 18.85 | BRT-NIEHS unpublished |
| 16.0444525665 | 15.488678092 | 18.85 | BRT-NIEHS unpublished |

3.2.2 SARA-ICE OECD TG 497 Defined Approach (version 1.0) Outputs

| POD | ED ₀₁ 5th | ED ₀₁ 50th | ED ₀₁ 95th |
|-----|----------------------|-----------------------|-----------------------|
| 260 | 3.4 | 290 | 16,000 |



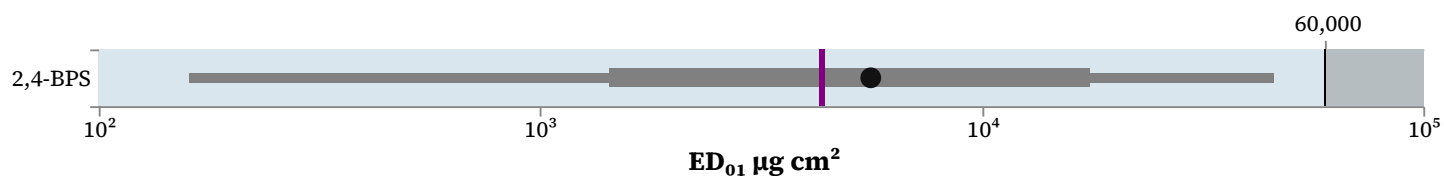
3.3 2,4-BPS (5397-34-2)

3.3.1 SARA-ICE Inputs

| DPRA | | | |
|---------------------|---------------------|-----------------------|-----------------------|
| Depletion Lys (%) | Depletion Cys (%) | Reference | |
| 6.4 | 0 | BRT-NIEHS unpublished | |
| KeratinoSens | | | |
| IC50 (µM) | EC1.5 (µM) | Reference | |
| 1410.3532372344 | 499.4781801582 | BRT-NIEHS unpublished | |
| h-CLAT | | | |
| CD54, EC200 (µg/ml) | CD86, EC150 (µg/ml) | CV75 (µg/ml) | Reference |
| 82.9765880507 | >205 | 170.4 | BRT-NIEHS unpublished |
| 101.1381733514 | >205 | 170.4 | BRT-NIEHS unpublished |

3.3.2 SARA-ICE OECD TG 497 Defined Approach (version 1.0) Outputs

| POD | ED ₀₁ 5th | ED ₀₁ 50th | ED ₀₁ 95th |
|-------|----------------------|-----------------------|-----------------------|
| 4,300 | 160 | 5,600 | 46,000 |



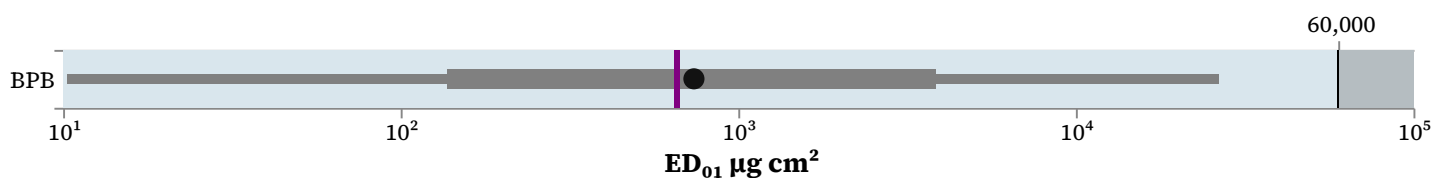
3.4 BPB (77-40-7)

3.4.1 SARA-ICE Inputs

| DPRA | | | |
|---------------------|---------------------|-----------------------|-----------------------|
| Depletion Lys (%) | Depletion Cys (%) | Reference | |
| 0 | 0 | BRT-NIEHS unpublished | |
| KeratinoSens | | | |
| IC50 (μM) | EC1.5 (μM) | Reference | |
| 6.1581790193 | 2.5498550413 | BRT-NIEHS unpublished | |
| h-CLAT | | | |
| CD54, EC200 (μg/ml) | CD86, EC150 (μg/ml) | CV75 (μg/ml) | Reference |
| 12.2337341063 | 10.9645972704 | 32.4 | BRT-NIEHS unpublished |
| 25.0317023965 | >38.9 | 32.4 | BRT-NIEHS unpublished |

3.4.2 SARA-ICE OECD TG 497 Defined Approach (version 1.0) Outputs

| POD | ED ₀₁ 5th | ED ₀₁ 50th | ED ₀₁ 95th |
|-----|----------------------|-----------------------|-----------------------|
| 650 | 10 | 740 | 27,000 |



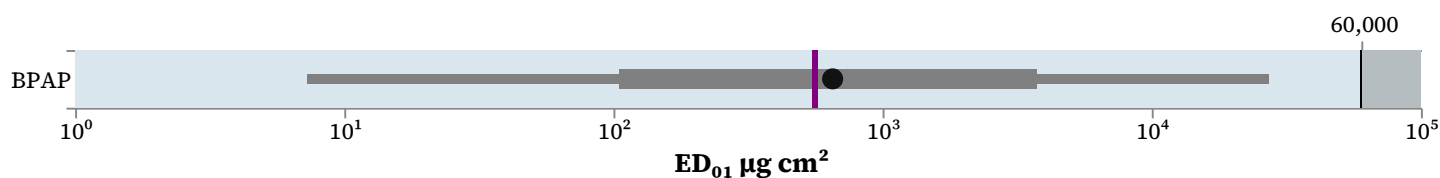
3.5 BPAP (1571-75-1)

3.5.1 SARA-ICE Inputs

| DPRA | | | |
|---------------------|---------------------|--------------|-----------------------|
| Depletion Lys (%) | Depletion Cys (%) | | Reference |
| 0.2 | 0 | | BRT-NIEHS unpublished |
| KeratinoSens | | | |
| IC50 (µM) | EC1.5 (µM) | | Reference |
| 1.931170344 | 0.653528118 | | BRT-NIEHS unpublished |
| h-CLAT | | | |
| CD54, EC200 (µg/ml) | CD86, EC150 (µg/ml) | CV75 (µg/ml) | Reference |
| 14.602920864 | 15.2027123553 | 20.5 | BRT-NIEHS unpublished |
| 17.6282528853 | >24.6 | 20.5 | BRT-NIEHS unpublished |

3.5.2 SARA-ICE OECD TG 497 Defined Approach (version 1.0) Outputs

| POD | ED ₀₁ 5th | ED ₀₁ 50th | ED ₀₁ 95th |
|-----|----------------------|-----------------------|-----------------------|
| 570 | 7.3 | 650 | 27,000 |



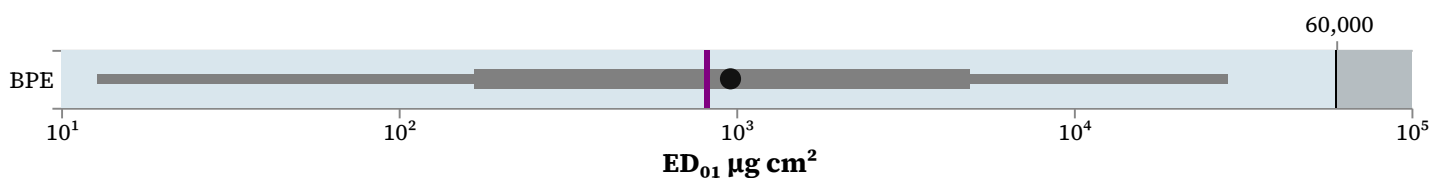
3.6 BPE (2081-08-5)

3.6.1 SARA-ICE Inputs

| DPRA | | | |
|---------------------|---------------------|-----------------------|-----------------------|
| Depletion Lys (%) | Depletion Cys (%) | Reference | |
| 0 | 0 | BRT-NIEHS unpublished | |
| KeratinoSens | | | |
| IC50 (µM) | EC1.5 (µM) | Reference | |
| 17.9318837101 | 0.9612960219 | BRT-NIEHS unpublished | |
| h-CLAT | | | |
| CD54, EC200 (µg/ml) | CD86, EC150 (µg/ml) | CV75 (µg/ml) | Reference |
| 22.591742094 | >79.7 | 66.45 | BRT-NIEHS unpublished |
| 45.8339400864 | >79.7 | 66.45 | BRT-NIEHS unpublished |

3.6.2 SARA-ICE OECD TG 497 Defined Approach (version 1.0) Outputs

| POD | ED ₀₁ 5th | ED ₀₁ 50th | ED ₀₁ 95th |
|-----|----------------------|-----------------------|-----------------------|
| 820 | 13 | 960 | 29,000 |



4 Appendix

4.1 Inputs Key

| Field | Description |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Substance Name | Full substance name that will appear in reports containing results. |
| Abbreviated Substance Name | Abbreviated substance name that is used in tables and figures. |
| CASRN | CASRN for the substance. This must be included alongside each datapoint on assay-specific sheets. This is used to link datapoints to the correct substance on the "Substances" sheet. |
| MW (g/mol) | Molecular weight of the substance. Necessary when including data on the kDPRA and KeratinoSens sheets to enable appropriate unit conversion. |
| Dose per Skin Area ($\mu\text{g}/\text{cm}^2$) | Dermal induction dose of the HPPT study |
| Number of Test Subjects | The number of test subjects in the HPPT study |
| Number of Positive Responses | The number of test subjects judged to be sensitised after the elicitation phase of the HPPT study |
| EC3 (%) | Estimated EC3 from the LLNA study. Negative studies should be entered as >X where X is the maximum concentration tested. LLNA studies with SI > 3 at the lowest tested concentration can be entered as <X where X is the lowest concentration tested. |
| Depletion Cys (%) | Percentage depletion of the cysteine peptide in a DPRA study |
| Depletion Lys (%) | Percentage depletion of the lysine peptide in a DPRA study |
| log Kmax (M ⁻¹ s ⁻¹) | Log Kmax value estimated from a kinetic DPRA study. When reactivity rate is too low to measure, input as <X where X is the lowest possible measurable reactivity rate. Typically X=-3.5 M ⁻¹ s ⁻¹ |
| EC1.5 (μM) | Concentration in the KeratinoSens study resulting in a 1.5-fold increase in luciferase activity |
| IC50 (μM) | Concentration resulting in 50% cell death in the KeratinoSens study |
| CD54, EC200 ($\mu\text{g}/\text{ml}$) | Concentration resulting in a 200% increase in expression of the CD54 biomarker in the h-CLAT study |
| CD86, EC150 ($\mu\text{g}/\text{ml}$) | Concentration resulting in a 150% increase in expression of the CD86 biomarker in the h-CLAT study |
| CV75 ($\mu\text{g}/\text{ml}$) | Concentration at which there is 75% cell viability in the h-CLAT study |

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| Field | Description |
|-------------------------------------|----------------------------------------------------------------------------------------------------|
| CD86, EC150 ($\mu\text{g/ml}$) | Concentration resulting in a 150% increase in expression of the CD86 biomarker in the U-Sens study |
| CV70 ($\mu\text{g/ml}$) | Concentration at which there is 70% cell viability in the U-Sens study |
| Reference | Source of input values. Not used within the model but will be included in output reports. |