











| Activity of DUCC members  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|
| A.I.S.E./FEA, FEICA and CEPE created SCEDs. EFCC is<br>evaluating whether additional SCEDs are needed for other<br>families of products used in construction. |  |  |  |  |  |  |  |  |
| A.I.S.E./FEA uses HERA tables of habits and practices as a basis,<br>plus information from published literature and higher Tier exposure<br>models.           |  |  |  |  |  |  |  |  |
| ✓CEPE has used the draft indoor air/paint emissions standard prEN<br>16402 and the RIVM Paint Products Fact Sheet as sources for its<br>determinants.         |  |  |  |  |  |  |  |  |
| ✓For FEICA, modified values have also been taken from RIVM Fact<br>Sheets.  |  |  |  |  |  |  |  |  |
| <b>One common format</b> for displaying key exposure determinants.  |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |

| The A.I.S.E. SCEDs – An Overview |  |  |  |  |  |  |
|----------------------------------|--|--|--|--|--|--|
| AISE Category                    | SCEDs                                      |  |  |  |  |  |
| LAUNDRY PRODUCTS                 | Laundry products (regular & compact)       |  |  |  |  |  |
|                                  | Fabric conditioners (regular & compact)    |  |  |  |  |  |
|                                  | Laundry additives, e.g. Bleach (specific)  |  |  |  |  |  |
|                                  | Water softener (specific)                  |  |  |  |  |  |
|                                  | Laundry aids, e.g. Ironing aids (specific) |  |  |  |  |  |
| CLEANERS                         | All-purpose cleaners (non spray)           |  |  |  |  |  |
|                                  | All-purpose cleaners (spray)               |  |  |  |  |  |
|                                  | Hand dishwash                              |  |  |  |  |  |
|                                  | Autodishwash                               |  |  |  |  |  |
| AIR FRESHENERS                   | Air fresheners                             |  |  |  |  |  |
| POLISHES & WAXES                 | Polishes and waxes                         |  |  |  |  |  |
|                                  |  |  |  |  |  |  |

| 23 August 2012 - Version 1                          |  |   |
|---|--|---|
| 25 August 2012 = Version 1                          |  |   |
| A ISE Specific Consum                               | er Evnosure Deter  | minants ("SCEDS")                             |
| A.I.J.L. Specific consum                            | er Exposure Deter  | mmunts   SCLDS                                |
| Blue text denotes refinements beyo                  | and the capabilities of ECE                                      | TOC TRA version3 "Add Subcategories tab".     |
| These data can be used manually in                  | the TRA <sup>1</sup> or in higher tier                           | tools.  |
|   |  |   |
| Exposure Descriptor or                              | Value  | Justification                                 |
| Determinant   |  |   |
| Use description                                     | Surface cleaner – non-   | spray application                             |
| Product/Article Use Category                        | PC35 - Washing and   | A.I.S.E. use mapping table:                   |
|   | cleaning products  |   |
|   |  | C7: SURFACE CLEANERS (powder, liquid,         |
|   |  | gel net) for consumer use - Not including     |
| PC/AC Cubanta annu                                  | 2 subsets sectors  | spray   |
| PC/AC Subcategory                                   | 2 subcategories  | Fowder (solid)                                |
| Product Ingredient Fraction (by                     | Powder (including  | Default generic maximum concentration         |
| weight) – This is substance                         | tablet) : 0.9g/g   | of any ingredient (substance) in a surface    |
| specific information and should                     |  | cleaner product. Source:                      |
| be adjusted on a case by case                       | Liquid:0.1g/g  | www.cleanright.eu                             |
| basis   |  |   |
|   |  | This is a default generic value to be used    |
|   |  | only in absence of specific substance and     |
|   |  | product data                                  |
| Frequency of Use (events/day.                       | 1 time per day   | A LS F. H&P <sup>2-</sup> 2 events/week       |
| and for an infrequently used                        |  | Unchanged from TRA default value              |
| product also provide days/year)                     |  |   |
| Relevant Route(s) of Exposure                       | Dermal   | Oral exposure is not considered relevant      |
|   |  | because its contribution to total             |
|   |  | exposure will be minimal (based on            |
|   | Inhalation (ontional)  | REACT & HERA <sup>2</sup> )                   |
|   | Can be considered for  |   |
|   | solvents and   |   |
|   | perfumes)  | Inhalation exposure is expected to be         |
|   |  | minimal when compared to dermal               |
|   |  | (given the exaggerated assumptions            |
|   |  | used) If desired for solvents and             |
|   |  | perfumes estimation of inhalation             |
|   |  | exposure can be done using higher tier        |
|   |  | models such as ConsExpo.                      |
|   |  |   |
| <sup>1</sup> In this document TRA is referring to E | CETOC TRA version 3 availab                                      | le under http://www.ecetoc.org/tra            |
| <sup>3</sup> Van de Plassche et al. (1998) Moret F  | induce youger <u>http://www.als</u><br>inst & Young Management ( | Consultants, Second Draft, Rep.No. 601503 013 |
| Nov. 1998 1-64.                                     |  |   |
|   |  |   |
|   |  | 1   |

| I.S.E. SCEDs –  | What do         | they look like?   | A·I·S·I |
|---|-----------------|---|---------|
| 23 August 2012 – Version 1  |                 |   |         |
| Dermal Specific Parameters  |                 |   |         |
| Skin Contact Area   | 857.5cm²: hands | Unchanged from TRA default value  |         |
| Skin Transfer Factor  | 1               | Unchanged from TRA default value  |         |
| Inhalation Specific Parameters  |                 |   |         |
| Amount of Product used per<br>application (g)   | 110             | Taken as maximum level from AISE<br>Habits and Practicestable developed by<br>AISE within the HERA project (2002) –<br>updated 2009 |         |
| Exposure Time (hr)  | 0.3             | Unchanged from ECETOC TRA   |         |
| Room Volume (m <sup>3</sup> )   | 20              | Unchanged from TRA default value  |         |
| Is product used outdoors only?  | No              | /   |         |
| Ventilation specified or likely due<br>to properties (i.e., odour, etc.)-if<br>so what type – (open window,<br>fan) | 0.6 ACH         | Unchanged from TRA default value  |         |
| Oral Specific Parameters  |                 |   |         |
| Volume Ingested (cm3)   | n/a             | Oral route is not considered relevant for this use  |         |
| Oral Transfer Factor  | n/a             | Oral route is not considered relevant for this use  |         |
| Sector/organisation with responsibility for the sheet   | A.I.S.E.        | Jay Ingram (Unilever),<br>Sophie Mathieu<br>(sophie.mathieu@aise.eu)  |         |
|   |                 |   | 10      |



| ECETOC  | CTRA —   | Add                      | su                      | bca             | atego                                     | ories (               | 1/2                   | )                           | A•I•S•                | E                                  |
|---|--|--------------------------|-------------------------|-----------------|---|-----------------------|-----------------------|-----------------------------|-----------------------|------------------------------------|
| CLICK TO ADD BLANK ROWS<br>(Added rows cannot be deleted but              |  | Only fo                  | or PC                   | ROUTE:<br>c = c | S OF EXPOSURE                             | ALL<br>Enter value <1 |                       | DERM                        | AAL<br>ADULT          | CHILD                              |
| Select from drop down   | Free Text  | Default is non-<br>spray | Default is<br>non-solid | LEA<br>exposu   | VE BLANK if<br>re pathway not<br>relevant | Product<br>Ingredient | Default = 1<br>(100%) |                             | Skin                  | Skin                               |
| Descriptor  | Product Subcategory  | Product is<br>a spray    | Product<br>is a solid   | Dermal          | Oral Inh                                  | Fraction by<br>Weight | TF dermal             | Select body<br>part exposed | Contact<br>Area (cm²) | Contact<br>Area (cm <sup>2</sup> ) |
| PC35:Washing and cleaning products (including solvent based products)     | C7: SURFACE<br>CLEANERS - Liquid<br>cleaning product for<br>manual application<br>c7: SU DEACE | No                       | No                      | а               | а   | 0,1                   |                       | 3: hands                    | 857,5                 |                                    |
| PC35: Washing and oleaning products (including<br>solvent based products) | CLEANERS - Abrasive<br>product for manual<br>surface application<br>C7: SURFACE                | No                       | Yes                     | а               | а   | 0,05                  |                       | 3: hands                    | 857,5                 |                                    |
| PC35:Washing and oleaning products (including solvent based products)     | CLEANERS - Abrasive<br>product for manual<br>surface application<br>C7-SURFACE                 | No                       | No                      | а               | а   | 0,05                  |                       | 3: hands                    | 857,5                 |                                    |
| PL35 Watning and defaining products (including solvert based products)    | CLEAVERS - Carpet<br>cleaners  | No                       | No                      | a               | a<br>                                     | 0,3                   |                       | 3 hands                     | 857,5                 |                                    |
|   |  |                          |                         |                 |   |                       |                       |                             | 12                    | 2                                  |

|                                  | ORAL                           | ADULT                 | CHILD                 | DERMALIUHA                  | INI  | HALATION                 |                             | I                      |
|----------------------------------|--------------------------------|-----------------------|-----------------------|-----------------------------|--|--------------------------|-----------------------------|------------------------|
| Default = 1<br>(100%)<br>TF oral | Select surface area<br>mouthed | Contact Area<br>(cm²) | Contact<br>Area (cm²) | FreQ of Use<br>(events/day) | Amount<br>Product used<br>per Application<br>(glevent) | Exposure<br>Time<br>(hr) | FreQ of Use<br>(events/day) | COMMENTS (Enter your j |
|                                  |                                |                       |                       | 1                           | 110  | 0,3                      | 1                           |                        |
|                                  |                                |                       |                       | 1                           | 110  | 0,3                      | 1                           |                        |
|                                  |                                |                       |                       | 1                           | 110  | 0.3                      | 1                           |                        |
|                                  |                                |                       |                       | 1                           | 110  | 0,3                      | 1                           |                        |
|                                  |                                |                       |                       |                             |  |                          |                             |                        |
|                                  |                                |                       |                       |                             |  |                          |                             |                        |



| A.I.S.E. case study  |  |  |  |  |  |
|--|--|--|--|--|--|
| etergent liquids ; laundry<br>oducts; Hand dishwashing<br>uids; Machine dishwashing<br>oducts ; rinse aids | ✓ Use assessed<br>as safe  |  |  |  |  |
| -purpose cleaners; Abrasive<br>uids; Floor cleaners; Carpet<br>eaners; Glass cleaners                      | X Use assessed<br>as unsafe  |  |  |  |  |
| -purpose cleaners- sprays,<br>ass cleaners - sprays  | ✓ Use assessed<br>as safe  |  |  |  |  |
|  | tergent liquids ; laundry<br>oducts; Hand dishwashing<br>uids; Machine dishwashing<br>oducts ; rinse aids<br>-purpose cleaners; Abrasive<br>uids; Floor cleaners; Carpet<br>aners; Glass cleaners<br>-purpose cleaners- sprays,<br>ass cleaners - sprays |  |  |  |  |

| R<br>Summary of Results for   | Results of the calculations with and without SCEDs   |   |  |   |  |   |   | ·S·E  |                                    |   |
|---|--|---|--|---|--|---|---|---|------------------------------------|---|
| Descriptor  | Product Subcategory  | Dermal<br>Exposure<br>Estimate<br>(mg/kg/day) | Dermal Risk<br>Characterisation<br>Ratio     | Oral<br>Exposure<br>Estimate<br>(mg/kg/day) | Oral Risk<br>Characterisation<br>Ratio | Inhalation<br>Exposure<br>Estimate<br>(mg/kg/day) | Inhalation<br>Exposure<br>Estimate<br>(mg/m³) | Inhalation Risk<br>Characterisation<br>Ratio        | Worst-case<br>Exposure<br>Scenario | Combined Risk<br>Characterisation<br>Ratio          |
| PC35: Washing and cleaning<br>products (including solvent<br>based products)  | Laundry and dish vashing products  | 2,14E+01                                      | 1,04E-01                                     |   |  | 5,35E+00  | 2,34E+02                                      | 2,47E-01  | Adult                              | 3,51E-01  |
|   | Cleaners, liquids (al purpose cleaners, sanitary products,<br>floor cleaners, glass cleaners, carpet cleaners, metal<br>cleaners )   | 4,29E+01                                      | 2,08E-01                                     |   |  | 2,36E+01  | 3,13E+03                                      | 3,29E+00  | Adult                              | 3,50E+00  |
|   | Cleaners, trigger sprays (al purpose cleaners, sanitary<br>products, glass cleaners)   | 2,14E+01                                      | 1,04E-01                                     |   |  | 7,06E+00  | 7,72E+01                                      | 8,13E-02  | Adult                              | 1,85E-01  |
| NEW SUBCATEGORIES   |  |   |  |   |  |   |   |   | NOT APPLICABLE                     |   |
| 1<br>2 PC35: Washing and cleaning product<br>3 PC35: Washing and cleaning product<br>4 PC35: Washing and cleaning product<br>5 PC35: Washing and cleaning product | s CP. SUFFACE CLEANERS - Liquid cleaning product forman<br>S CP. SUFFACE CLEANERS - Abrasive product formanual su<br>s CP. SUFFACE CLEANERS - Abrasive product formanual su<br>s CP. SUFFACE CLEANERS - Capet cleaners | 1,43E+01<br>7,15E-01<br>7,15E+00<br>4,23E+01  | 6,94E-02<br>3,47E-03<br>3,47E-02<br>2,08E-01 |   |  | 3,19E+00<br>1,60E+00<br>1,60E+00<br>9,58E+00      | 4,66E+02<br>2,33E+02<br>2,33E+02<br>1,40E+03  | 4,91E-01<br>2,45E-01<br>2,45E-01<br><b>1,47E+00</b> |                                    | 5,60E-01<br>2,49E-01<br>2,80E-01<br><b>1,68E+00</b> |
| S   | ↑<br>CEDs  | •   |  |   |  |   |   |   |                                    |   |
|   |  |   |  |   |  |   |   |   |                                    | 16  |

| Results of the calculations -Summary table  |   |   |  |  |  |  |  |  |
|---|---|---|--|--|--|--|--|--|
| Product Subcategory   | Dermal<br>Exposure<br>Estimate<br>(mg/kg/day) | Dermal Risk<br>Characterisati<br>on Ratio | Inhalation<br>Exposure<br>Estimate<br>(mg/m <sup>3</sup> ) | Inhalation<br>Risk<br>Characterisati<br>on Ratio | Combined<br>Risk<br>Characterisati<br>on Ratio |  |  |  |
| Cleaners, liquids (all purpose<br>cleaners, sanitary products,<br>floor cleaners, glass cleaners, |   |   |  |  |  |  |  |  |
| carpet cleaners, metal cleaners )   | 4,29E+01                                      | 2,08E-01                                  | 3,13E+03   | 3,29E+00   | 3,50E+00                                       |  |  |  |
| C7: SURFACE CLEANERS - Liquid<br>cleaning product for manual                                      |   |   |  |  |  |  |  |  |
| application   | 1,43E+01                                      | 6,94E-02                                  | 4,66E+02   | 4,91E-01   | 5,60E-01                                       |  |  |  |
| C7: SURFACE CLEANERS -<br>Abrasive product for manual<br>surface application                      | 7,15E-01                                      | 3,47E-03                                  | 2,33E+02   | 2,45E-01   | 2,49E-01                                       |  |  |  |
| C7: SURFACE CLEANERS -<br>Abrasive product for manual   |   |   |  |  |  |  |  |  |
| surface application   | 7,15E+00                                      | 3,47E-02                                  | 2,33E+02   | 2,45E-01   | 2,80E-01                                       |  |  |  |
| C7: SURFACE CLEANERS - Carpet<br>cleaners   | 4,29E+01                                      | 2,08E-01                                  | 1,40E+03   | 1,47E+00   | 1,68E+00                                       |  |  |  |
|   |   |   |  |  | 17   |  |  |  |
|   |   |   |  |  |  |  |  |  |

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| Comparison of Risk Characterisation Ratios A·I·S·E<br>across exposure tools.  |  |   |  |  |  |  |  |
|---|--|---|--|--|--|--|--|
| Product Subcategory   | Combined Risk<br>Characterisation<br>Ratio using ECETOC<br>TRA v3<br>WITHOUT SCEDs | Combined Risk<br>Characterisation<br>Ratio using<br>ECETOC TRA v3<br>WITH SCEDs | Risk Characterisation<br>Ratio using ConsExpo<br>(as calculated by<br>ECHA in context of<br>the example) |  |  |  |  |
| Cleaners, liquids (all purpose cleaners,<br>sanitary products, floor cleaners, glass<br>cleaners, carpet cleaners, metal<br>cleaners) | 3,5  |   |  |  |  |  |  |
| C7: SURFACE CLEANERS - Liquid<br>cleaning product for manual<br>application   |  | o,56  | 0,073<br>÷ 8   |  |  |  |  |
| C7: SURFACE CLEANERS - Abrasive<br>product for manual surface<br>application  |  | 0,25  | 0,023<br>÷ 11  |  |  |  |  |
| C7: SURFACE CLEANERS - Abrasive<br>product for manual surface<br>application  |  | 0,28  | 0,023  |  |  |  |  |
| C7: SURFACE CLEANERS - Carpet<br>cleaners   | ÷ 2  | 1,68  | 0,221<br>÷ 8   |  |  |  |  |

## 9



