

Supplementary materials

Table S1. Parameters used in the Scenario 1 ConsExpo model.

Parameter	Value
AS concentration (% [w/w])	0.104
Potential body exposure (mg/min) ¹	45.20
Potential hand exposure (mg/min) ¹	64.7
Potential inhalation exposure (mg/m ³) ¹	35.9
Inhalation/respiration rate (m ³ /h) ²	1.25
Application duration (s) ³	9
Dermal absorption (%) ⁴	TFT
Body mass (kg) ²	60

¹Default BHHHEM value [38]

²Recommendation no. 14 of the Biocidal Products Committee (BPC) Ad hoc Working Group on Human Exposure—default values when assessing human exposure to biocidal products [40]

³Recommended spray duration based on mode of use

⁴Default value based on EFSA guidance on dermal absorption [82]

Table S2. Parameters used in the Scenario 2 ConsExpo model.

Parameters	Value
AS concentration (% [w/w])	0.104
Vapour pressure (kPa)	TFT
Molar mass (g/mol)	TFT
Product amount (g) ¹	12.3
Emission duration (h) ¹	24
Exposure duration (min) ¹	720
Room volume (m ³) ²	30
Ventilation rate (1/h) ²	0.5
Mass transfer coefficient (m/hr) ³	10
Release area (m ²) ²	12
Body mass (kg) ⁴	Adult
	Toddler

¹Product-specific information

²Pest Control Products Fact Sheet [39]

³Cleaning Products Fact Sheet—2018 update [83]

⁴Recommendation no. 14 of the BPC Ad hoc Working Group on Human Exposure—default values when assessing human exposure to biocidal products [40]

Table S3. Parameters used in the Scenario 3 ConsExpo model.

Parameters		Value
AS concentration (% [w/w])		0.104
Dislodgeable residues ¹ (mg/cm ²)	Outdoors	0.0574
Skin surface area (cm ²) ²	Adult	9,550
	Toddler	2,419.2
Surface contamination (%)		100
Dermal absorption (%) ³		70
Body mass (kg) ⁴	Adult	60
	Toddler	10

¹Default values from ECHA Technical Notes for Guidance Part 2 (p. 257; in cases of non-professional use and residential exposure to biocides) [84]

²Based on recommendation no. 14 of the BPC Ad hoc Working Group on Human Exposure [40], where skin surface areas were calculated as follows:

adults: 820 cm² for hands + 2,270 cm² for arms + 1,130 cm² for feet + 5,330 cm² for legs = 9,550 cm²

toddlers: 230.4 cm² for hands + 681.6 cm² for arms + 288 cm² for feet + 1,219.2 cm² for legs = 2,419.2 cm²

³Default value from EFSA guidance on dermal absorption [82]

⁴Recommendation no. 14 of the BPC Ad hoc Working Group on Human Exposure—default values when assessing human exposure to biocidal products [40]

Table S4. Parameters used in the Scenario 4 ConsExpo model.

Parameters		Value
AS concentration (% [w/w])		0.104
Dislodgeable residues ¹ (mg/cm ²)	Outdoors	0.0574
Surface area of fingertips (cm ²) ²		4
Efficiency of removal by saliva from skin (%) ³		50
Number of hand-to-mouth contacts (per day) ³		36
Oral absorption (%) ⁴		100
Body mass (kg) ⁵	Toddler	10

¹Default values from ECHA Technical Notes for Guidance Part 2 (p. 257; in cases of non-professional use and residential exposure to biocides) [84]

²According to the Do-It-Yourself Products Fact Sheet (RIVM report 320104007/2007; assuming a fingertip surface area of 1 cm²) and utilising four fingers as a worst-case situation [85]

³Camann DE, Majumadar TK, and Geno P, 2000. Evaluation of Saliva and Artificial Salivary Fluids for Removal of Pesticide Residues from Human Skin. Final Report to EPA by ManTech (Contract 68-D5-0049) [86]

⁴TFT Assessment Report NL (2014) [44]

⁵Recommendation no. 14 of the BPC Ad hoc Working Group on Human Exposure—default values when assessing human exposure to biocidal products [40]