Succinct summary of representative risk management measures (RMMs) and operational conditions (OCs)

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Submitted by:	Sekisui S-lec B.V.
Substance:	4-Nonylphenol, branched and linear, ethoxylated
Use title:	Industrial use as polymer additive in the manufacture of interlayer polymer films for laminated safety glass
Use number:	ES1

[Industrial use as polymer additive in the manufacture of interlayer polymer films for laminated safety glass]

ECS and WCS	Task (ERC/spERC or PROC)	Annual amount per site (tonnes /year)	Technical RMMs, including: *Containment, *Ventilation (general, LEV…) *customized technical installation, etc	Organisational RMMs, including: *Duration and Frequency of exposure *OSH management system *Supervision *Monitoring arrangements *Training, etc	PPE (characteristics)	Other conditions	Effectiveness of waste water and waste air treatment (for ERC)	Release factors: water, air and soil (for ERC)	Detailed info. in CSR (section)
ECS 1	ERC 5 Use at industrial site leading to inclusion into/onto article	[0.1-1.0] [#01] [redacted] tpa					Water: Oil/water separator: 0 % (worst-case assumption) Air: Condenser (steam) Metal mesh filter (particles): 100 % Soil: Closed dip tray: 100 %	Water: [0.001-0.015] [#02] [redacted] (based on findings in migration study) Air: 0 Soil:0	9.1.2.4 9.1.2.5 9.1.2.6 9.2.1.1 9.2.1.2
WCS 1	PROC 2 Polymerisation process		High containment, occasional exposure during maintenance	Closed high-temperature process,		Indoor, concentration < 0.01 % (w/w)			9.1.1
WCS 2	PROC 8b Filling		High containment, filling operations performed in closed glove box system	Closed system, EHS system in place	Gloves, eye protection, worker cloths	Indoor, room temperature, concentration 1-5 %(w/w)			9.1.1
WCS 3	PROC 14 Extrusion		Open process, General ventilation, exhaust air handling via filter system	Automated process – occasional monitoring by trained worker	Worker cloths, general occupational protectio	Indoor, concentration < 0.01 % (w/w)			9.1.1

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WCS 4	PROC 6 Calendering		Open process, General ventilation, exhaust air handling via filter system	Automated process – occasional monitoring by trained worker	Worker cloths, general occupatio nal protectio n	Indoor, x °C, concentration < 0.01 % (w/w)			9.1.1
WCS 5	PROC 21 Handling of film rolls		Open process, General ventilation, exhaust air handling via filter system	Handling of SC Film by trained workers, EHS system in place	Worker cloths, Gloves (protecti on of film)	Indoor, room temperature, concentration < 0.01 % (w/w)			9.1.1

Abbreviations: WCS=Worker contributing scenario, ECS=Environmental Contributing Scenario,* ERC=Environmental Release Category (or spERC if available) , PROC= Process category, LEV=Local Exhaust Ventilation, PPE=Personal Protective Equipment