

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

**Legal name of applicant(s):** *Chemetall GmbH*

*Chemetall PLC*

**Submitted by:** *Chemetall GmbH*

**Substance:** *4-Nonylphenol, branched and linear, ethoxylated*

**Use title:** *The formulation of a hardener component containing  
NPE within Aerospace two-part polysulfide sealants*

**Use number:** *Use 1*

**June 2019**

*The formulation of a hardener component containing NPE within Aerospace two-part polysulfide sealants*

ECS	Task (ERC/spERC)	Annual amount across EU (tpa)	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 (page)
<b>ECS 1</b>	ERC 2 <sup>1</sup> : Formulation of hardener component	0.05 - 0.35	The hardener is prepared in accordance with a Standard Operating Procedure (SOP) that provides instructions preventing release to the environment.  No water supplied to or used in, and no release to wastewater from the facility during hardener production, and related cleaning and maintenance activities.	Formulation over an 8-hour working shift, 264 days per year.  Worker training on handling of chemicals and waste materials, including PPE.	Disposable PPE (e.g. gloves, eye protection, disposable aprons) is only relevant in terms of preventing release to the environment.	NPE contaminated waste is collected and processed by licensed third party waste management contractors as hazardous waste in line with applicable local, regional, and national regulations. Compliance with these regulations precludes release to the environment and generally involves incineration.	No release to water, air, soil or sediment from the site.	Water: 0 (no release to water)  Air: 0 (no release to air)  Soil: 0 (no release to soil)	92

<sup>1</sup> Formulation into mixture