37. ES 37: Service life (professional worker); Service life of nickel-containing electronic parts and batteries in professional settings

37.1. Title section

Article category: Machinery, mechanical appliances, electrical/electronic articles (AC 2), Electrical batteries and accumulators (AC 3)

Environment	
1: Service life of nickel-containing electronic parts and batteries in professional settings	ERC 11a
Worker	
2: Handling of matrices containing the substance with no foreseeable release	PROC 21

37.2. Conditions of use affecting exposure

37.2.1. Control of environmental exposure: Service life of nickel-containing electronic parts and batteries in professional settings (ERC 11a)

Technical and organisational conditions and measures
The substance should not be released to air
The substance should not be released to water
Conditions and measures related to biological sewage treatment plant
Municipal sewage treatment plant is assumed.
Conditions and measures related to external treatment of waste (including article waste)
Dispose of waste product or used containers according to local regulations.

37.2.2. Control of worker exposure: Handling of matrices containing the substance with no foreseeable release (PROC 21)

Product (article) characteristics
Covers concentrations up to 100 %
Physical form of product: Bound in article.
Amount used (or contained in articles), frequency and duration of use/exposure
Covers use up to 8 h/day

37.3. Exposure estimation and reference to its source

37.3.1. Environmental release and exposure: Service life of nickel-containing electronic parts and batteries in professional settings (ERC 11a)

Release route	Release rate	Release estimation method
Water	0 kg/day	Estimated release factor
Air	0 kg/day	Estimated release factor
Soil	0 kg/day	Estimated release factor

37.3.2. Worker exposure: Handling of matrices containing the substance with no foreseeable release (PROC 21)

Route of exposure and type of effects	Exposure estimate	RCR
Inhalation, systemic, long term	0.1 ng/m³ (Qualitative Assessment)	< 0.01
Inhalation, local, long term	0.1 ng/m³ (Qualitative Assessment)	< 0.01
Inhalation, local, acute	0.1 ng/m³ (Qualitative Assessment)	< 0.01
Dermal, local, long term	0.1 ng/cm² (Qualitative Assessment)	< 0.01
Combined, systemic, long term		< 0.01

37.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance: Please refer to Section 0.3 of this “ES for Communication”.