

## SAFE USE INSTRUCTION

According to Reg. EC N° 1907/2006 (REACH) Art.33

This Safe use instruction satisfies the requirement to communicate information on substances in articles as per Article 33 of Regulation (EC) N°1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation Authorisation and Restriction of Chemicals. This Safe use instruction is mandatary if the substance in an SVHC identified in accordance with REACH ART. 59(1) in a concentration above 0,1% weight/weight

SUBSTANCE: Cadmium EC number: 231-152-8, CAS number: 7440-43-9

Cadmium is a Substance of very high concern (SVHC) included in the Candidate list for Authorization, due to these properties of concern:

- Carcinogenic Article 57(a)
- Specific target organ toxicity after repeated exposure Article 57(f)

## 1. SAFE USE CONDITIONS

Normal use	Stable under normal use; no expected hazardous emissions.
Handling	It is recommended that appropriate Personal Protective Equipment (PPE) to be
Assembly	used when handling, assembling/disassembling articles though these activities
Disassembly	may cause some very minor transfer of residue onto unprotected skin
Plating mechanical removal	Any mechanical removal of cadmium plating shall be done with an adequate ventilation/other engineering controls to prevent release/to control dispersion from source towards the worker and using the appropriate PPE.  Attention: mechanical removal techniques may generate hazardous particulates that must be disposed in accordance with applicable laws and regulations
Plating chemical removal	Any chemical removal of cadmium plating shall be done with an adequate proper ventilation/other engineering controls to prevent release/to control dispersion from source towards the worker and using the appropriate PPE.  Attention: stripping may use of chemical techniques that can generate hazardous waste that must be disposed in accordance with applicable laws and regulations
Disposal	It is recommending to participate in end-of-life take back programs if available or reuse and recycle material when possible. Otherwise disposal shall be made according to applicable regulations



## 2. EXPOSURE CONTROL

<b>Engineering Controls</b>	Technical conditions and measures at process level (source) to prevent release/to
	control dispersion from source towards the worker:
	<ul> <li>Process enclosures or semi-enclosures where appropriate.</li> </ul>
	<ul> <li>Local exhaust ventilation/dust collection in the work areas with potential dust generation, dust capturing and removal techniques to limit airborne dust concentrations to the lowest level</li> </ul>
	Dust control: cadmium in dust needs to be measured in the workplace air (static or individual) according to national regulations.
	For more details, please refer to "Management of the risk related to the chronic occupationa exposure to cadmium and its compounds" (ICdA 2018.2 revision):  https://www.cadmium.org/doc/news_18/2018-2-icda-guidance-document.pdf
Personal Protective	Skin: Protective clothing to avoid contact with exposed skin may
Equipment (PPE)	include coveralls, gloves and head/face covering.
	Disposable/single use protective clothing is recommended.
	Eyes: Safety glasses and/or goggles are recommended.
	<b>Respiratory protection:</b> respiratory protection devices with adequate efficience
	levels shall be worn
	For more details, please refer to "Management of the risk related to the chronic occupationa
	exposure to cadmium and its compounds" (ICdA 2018.2 revision):
	https://www.cadmium.org/doc/news_18/2018-2-icda-guidance-document.pdf
Monitoring	An exposure assessment comply should be conducted to determine if the exposure
	level for each task is lower than:
	<ul> <li>for workplace referring to EU value Occupational Exposure Limits (OEL):</li> </ul>
	Region Legislation Long-term Exposure Short-term Exposure Skin Dermal Respiratory Work Effective Expiration Sensitization Sensitization Sensitization Sector Date Date
	mg/m³ ppm f/ml mg/m³ ppm f/ml sensuzation
	European CMD - 0.001 11 July Union Carcinogens 2027 and Mutagens Directive
	European Union CATION O.004 11 July 2027 and Mutagens Directive
Additional requirement	For workers adeguate procedure shall be available and training must be provided

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