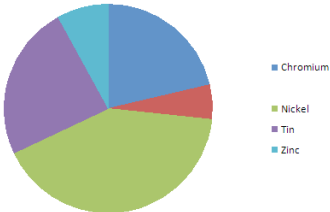


## SPERC fact sheet – *Formulation of massive metal and metal powder*

General information					
<b>Title of specific ERC</b>	Formulation of massive metal or metal powder in alloys				
<b>Based on ERC</b>	2 – Formulation of preparations 3 – Formulation in materials				
<b>Version</b>	1.1				
<b>Scope</b>	Alloying of massive metal or metal powder into alloys				
<b>Coverage</b>	<p>Metal representativeness of background data:</p>  <p>Legend:</p> <ul style="list-style-type: none"> <li>Chromium</li> <li>Nickel</li> <li>Tin</li> <li>Zinc</li> </ul>				
<b>Narrative description</b>	<p><b>To be included</b></p> <p>Processes include raw materials handling and storing of produced substances.</p>				
<b>Substance use rate</b>	Assessment defaults as set by ERC				
<b>Other operational conditions</b>	Open (and closed) systems, (wet and) dry processes				
<b>Environment Parameters for Fate Calculation</b>	<p>Assessment defaults as set by ERC</p> <p>Assumed data for receiving water and for the municipal sewage treatment plant are 18000 m<sup>3</sup>/d and 2000 m<sup>3</sup>/d, respectively (resulting dilution factor 10). For marine assessments an additional tenfold dilution is assumed.</p>				
	<table border="1"> <thead> <tr> <th>Typical observed efficiency from background data</th> <th>Type of RMM</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table>	Typical observed efficiency from background data	Type of RMM		
Typical observed efficiency from background data	Type of RMM				
<b>Appropriate Risk</b>	<i>Air:</i>				

<b>management measures (RMM) that may be used to achieve required emission reduction</b>	ca. 99.00%	RMMs for air are present in >90% of the sites: <ul style="list-style-type: none"> <li>• Electrostatic precipitation (not common)</li> <li>• Fabric or bag filters (reported most common)</li> <li>• Ceramic filters</li> <li>• Wet scrubbers (reported second most common)</li> <li>• Dry or semi-dry scrubbers</li> </ul>
	<b>Water:</b>	
	50.00 – 99.90%	RMMs for water are present in >70% of the sites: <ul style="list-style-type: none"> <li>• Chemical precipitation (most common)</li> <li>• Sedimentation</li> <li>• Filtration</li> <li>• Electrolysis</li> </ul>
	<b>Characteristics of specific ERC</b>	<b>Justification</b>
<b>Number of emission days</b>	225 days/year	10 <sup>th</sup> percentile of 83 reported site-specific number of emission days
<b>Emission fractions</b>	air: 0.007% (release after RMM)	90 <sup>th</sup> percentile of 49 reported site-specific release factors to air
	water: 0.003% (release after on-site RMM)	90 <sup>th</sup> percentile of 71 reported site-specific release factors
	soil: n.a.	Assessment default as set by ERC