

### E-28.1 Environmental scenario for generic wide dispersive use of articles containing borates with high release

Systematic title based on use descriptor	ERCs	Description
	10b	Wide dispersive outdoor use of long-life articles, high or intended release
	11b	Wide dispersive indoor use of long-life articles, high or intended release

### E-28.2 Controlling environmental exposure

Product characteristics	Borates are integrated into articles without intended release	
Amounts used	35 000 T B/y Europe wide	
Frequency and duration of use	365 days per year	
Environment factors not influenced by risk management	Dilution of 10	
Other given operational conditions affecting environmental exposure	None	
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Release factor to water after on-site treatment	1 000 000 g/T
	Release factor to air after on-site treatment	Not relevant for wide dispersive use
Organizational measures to prevent/limit release from site	None	
Conditions and measures related to municipal sewage treatment plant	Discharges to a municipal STP should be regulated that the PNEC <sub>stp</sub> of 10 mg/L is not exceeded. For this scenario a default STP with a discharge rate of 2 000 m <sup>3</sup> /day has been chosen.	
Conditions and measures related to external treatment of waste for disposal	Not relevant	

### E-28.3. Exposure estimation

ES1: Environmental Exposure Estimations		PEC	PNEC <sub>add</sub>	RCR
	STP		9 589 µg/L	10 000 µg/L
Aquatic environment		1 015 µg/L	2 020 µg/L	0.503

### E-28.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

The DU works inside the boundaries set by the ES if either the proposed risk management measures or emissions (expressed in g/T) as described above are met or the DU can demonstrate on his own that his implemented risk management measures or emissions are adequate. Detailed guidance for evaluation of ES can be acquired via your supplier or from the ECHA website (guidance R16). For environmental exposure, a DU-scaling tool (free download: <http://www.arche-consulting.be/Metal-CSA-toolbox/du-scaling-tool>) is available.