

E-25.1 Environmental scenario for generic wide dispersive use of paints and coatings containing borates

| Systematic title based on use descriptor | ERCs | | Description |
|--|------|--|-------------|
| | 8c | Wide dispersive indoor use, inclusion into or onto a matrix | |
| | 8f | Wide dispersive outdoor use, inclusion into or onto a matrix | |

E-25.2 Controlling environmental exposure

| | | | |
|--|--|--------------------------------------|--|
| Product characteristics | Borates are considered solids in paints | | |
| Amounts used | 1 750 000 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 | 20 000 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 _{stp} of 10 mg/L is not exceeded. For this scenario a default STP with a discharge rate of 2 000 m ³ /day has been chosen. | | |
| Conditions and measures related to external treatment of waste for disposal | Not relevant | | |

E-25.3. Exposure estimation

| ES1: Environmental Exposure Estimations | | PEC | PNEC _{add} | RCR |
|---|---------------------|------------|---------------------|-------|
| | STP | 9 589 µg/L | 10 000 µg/L | 0.959 |
| | Aquatic environment | 1 015 µg/L | 2 020 µg/L | 0.503 |

E-25.4. 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.