HH-25.1. Occupational scenario for professional use of paints and coatings

Systematic title based on use descriptor	PROCs	
	10	Roller application or brushing.
	11	Non-industrial spraying.

HH-25.2 Controlling worker exposure

Product characteristics		Liquid mixtures and containing 0.5 – 3.6% boron.
Amounts used		Tens of kg per day.
Frequency and duration of use		Daily shift-length activity.
Human factors not influenced by risk management		None
Other given operational conditions affecting workers exposure		Activities most likely take place indoors.
Technical conditions and measures at process level (source) to prevent release		If applied by brush or roller there is no production of aerosol.
Technical conditions and measures to control dispersion from source towards the worker		LEV where spray application is used.
Organisational measures to prevent /limit releases, dispersion and exposure		Appropriate training. Regular testing and maintenance of plant and equipment.
Conditions and measures related to personal protection, hygiene and health evaluation	**Clothing**	Overalls and safety shoes
	Gloves	Not required for normal industrial exposure
	Eye protection	Required where good hygiene practice or substance classification demands it
	RPE	P2/P3 required where exposure is above the DNEL. Full-face, air-fed respirators may be used when spraying

HH-25.3. Exposure estimation

Human Health Exposure Estimations

INHALATION

	Activity	Source/ Parameters	RMM	Value 8h TWA mg B/m^3	RCR DNEL = 1.45 mg B/m3
Modelled (ART)	Painting	Powders dissolved in a viscous liquid Surface-spraying Moderate application Effective housekeeping Indoors Any size workroom No secondary controls and general ventilation	LEV in use RPE not taken into account	0.67 (90P)	0.46

DERMAL

	Activity	Source/ Parameters		RMM	Value mg B/day	RCR DNEL = 4800 mg B/day
Modelled (MEASE)	Pneumatically transfer of substance from/to large vessels	**Physical form**	liquid	-	0.048	<0.001
		Content	1 - 5% boron			
		PROC	7			
		Duration	> 240 min			
		Use pattern	wide dispersive			
		Handling	non-direct			
		Contact level	intermittent			

HH-25.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

If the parameters used in the MEASE model outlined above do not reflect conditions at the DU facility, the DU can use MEASE and input the parameters that do reflect conditions at the DU facility to check whether the DU works inside the boundaries set by the ES. Detailed guidance for evaluation of ES can be acquired via your supplier or from the ECHA website (guidance R14, R16).