

### HH-41.1. Occupational scenario for working in a warehouse

Systematic title based on use descriptor	PROCs	
	0	

### HH-41.2 Controlling worker exposure

Product characteristics	Granular or powder form.	
Amounts used	Thousands of tonnes of materials can be stored.	
Frequency and duration of use	It takes about half an hour to an hour to load a container lorry with pallets of borates. The warehouse operatives may also transport material from the plants into the warehouse.	
Human factors not influenced by risk management	None	
Other given operational conditions affecting workers exposure	Big bags are closed and 25kg bags are closed and wrapped in a plastic cover.	
Technical conditions and measures at process level (source) to prevent release	None	
Technical conditions and measures to control dispersion from source towards the worker	None	
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	Standard work clothes.
	Gloves	Not required for normal industrial exposure.
	Eye protection	Required where good hygiene practice or substance classification demands it.
	RPE	-

### HH-41.3. Exposure estimation

Human Health Exposure Estimations	INHALATION					
		Activity	Source/ Parameters	RMM	Value 8h TWA mg B/m <sup>3</sup>	RCR DNEL = 1.45 mg B/m <sup>3</sup>
	Measured	Fork lift driving	90P of measured data (15 datapoints)	-	0.3	0.21
DERMAL						
There is little potential for dermal exposure during this activity as all the bags are wrapped and shrink-wrapped in plastic.						

### HH-41.4. 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).