

### HH-30.1. Occupational scenario for use of developer and fixer solutions in photographic applications

<b>Systematic title based on use descriptor</b>	<b>PROCs</b>	
	13	Treatment of articles by dipping and pouring.

### HH-30.2 Controlling worker exposure

<b>Product characteristics</b>	Developer and fixer solutions contain < 1% boron.
<b>Amounts used</b>	50L will be held in the processor at any time.
<b>Frequency and duration of use</b>	Potential dermal exposure for professionals is up to about 12 minutes, as film and paper is moved manually from tray to tray.
<b>Human factors not influenced by risk management</b>	None
<b>Other given operational conditions affecting workers exposure</b>	Activities take place indoors.
<b>Technical conditions and measures at process level (source) to prevent release</b>	Commercial processing is completely automated with no opportunity for exposure.
<b>Technical conditions and measures to control dispersion from source towards the worker</b>	None
<b>Organisational measures to prevent /limit releases, dispersion and exposure</b>	Appropriate training.
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	General good hygiene.

### HH-30.3. Exposure estimation

		INHALATION					
			Activity	Source/ Parameters	RMM	Value 8h TWA mg B/m <sup>3</sup>	RCR DNEL = 1.45 mg B/m <sup>3</sup>
		Inhalation exposure unlikely, no aerosol are formed					
Human Health Exposure Estimations		DERMAL					
			Activity	Source/ Parameters	RMM	Value mg B/day	RCR DNEL = 4800 mg B/day
	<b>Modelled (MEASE)</b>	Professional activities	<b>Physical form</b>	aqueous solution	-	0.024	<0.001
			<b>Content</b>	< 1% boron			
			<b>PROC</b>	19			
			<b>Duration</b>	< 15 min			
			<b>Use pattern</b>	non dispersive			
			<b>Handling</b>	direct			
			<b>Contact level</b>	incidental			

### HH-30.4. 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).