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Case Study Using WATSIN to Appeal an Improvement Order

A company was recently inspected by a Workplace Safety and Health Inspector. The inspector issued an Improvement Order for air testing based on their opinion that the worker was exposed above the Occupational Exposure Limit (OEL). The product contains styrene and is only used a couple of hours a day. The workplace also has general ventilation that it turns on when the product is used.

The information regarding how the product is used, what controls are in place, etc. were entered into the WATSIN program which produces a prediction of the worker's exposure. A copy of the WATSIN prediction is shown below. It predicts an exposure less than 1% of the OEL and recommends that no further action is needed.

Name of Product: Light We	ight
Duration: Exposure occurs 1	
Proximity: Worker at arm's Vapour Hazard Ratio: 200 -	
Respiratory Protection: No	
Nature of Process: Default	
Controls: Good general ven	tilation (e.g., 6 - 12 air changes per hour of general ventilation)
	Reaction (e.g., 6 - 12 air changes per hour or general ventiliation) Action to take
stimated exposure is	Action to take
stimated exposure is <1 % of the OEL	Action to take
Estimated exposure is <1 % of the OEL 1 - 10% of OEL	Action to take No Action Recommended General WRMIS Training
Estimated exposure is <1 % of the OEL 1 - 10% of OEL 10 - 20% of OEL	Action to take No Action Recommended General WHMIS Training plus specific training on hazards of products

Α company can appeal an improvement order if it feels that the order is not correct. In this case. rather than appeal the Improvement Order, the company performed sampling to measure the worker's exposure. A sampling device was worn by the worker over the course of the day to measure the concentration of styrene in their breathing zone. The sample was then sent to a lab for analysis. The laboratory results of the test showed that the worker received an exposure of only 0.04% of the OEL.

Exposure algorithms have been proven to be more accurate than individual opinion. Had the company ran the scenario through the WATSIN program, it would have had grounds to appeal the Improvement Order. This would have saved the company the time and expense of performing air testing.

Should you have any questions, please contact us at (204) 668-3141 or by email at <u>contact@winnipegairtesting.com</u>.

Sincerely,

Winnipeg Air Testing