Safety Alert - Property Services Group Preventing Respirable Crystalline Silica Exposure

Context:

The Victorian Government introduced new regulations in 2022 aimed at minimising Victorian workers exposure to crystalline silica and also adding additional regulatory oversight of high-risk crystalline silica work outside of engineered stone across all industries.

Hazard:

<u>What is Respirable Crystalline Silica ?</u> This is a form of Silca dust it is found in some stone, rock, sand, gravel, and clay. The most common form is quartz. Silica dust can also be found in the following products:



When these materials are worked on, silica is released as a fine dust known as respirable crystalline silica or silica dust.

Silica dust is harmful when inhaled into your lungs. Exposure to silica dust can lead to the development of silicosis (an irreversible scarring and stiffening of the lungs). It is estimated that 230 people develop silicosis each year as a result of past exposure to silica dust at work. Not all exposed workers will develop silicosis; silicosis risk increases with long-term or repeated high-level exposure.

Who is at risk

The workers most at risk of exposure to silica dust are those who use power tools or mechanical equipment on silica containing stone or rocks and products that contain silica.

Moving Forward at RMIT

- 1. The uncontrolled cutting of engineered stone is prohibited.
- 2. All work performed at RMIT on material containing crystalline silica that generates dust is to be classed as <u>High-Risk Crystalline Silica Work</u>, unless determined otherwise by testing and risk assessment. By law, employers must carry out air monitoring if they are not sure if their employees are exposed to levels of silica dust that are above the exposure standard.
- 3. A crystalline silica hazard control statement (CSHCS) is required for all work preformed on material that contains crystalline silica.
- 4. RMIT PSG Design Stds to be reviewed and updated to
 - I. Prohibit the use of Engineered stone
 - II. Prohibit the use of Sandstone containing >70% Crystalline Silica
 - III. Prohibit the use of any product containing >70% Crystalline Silica

Improving the Health, Safety and Wellbeing for Our Community

HSW-PR07-TM02 Rev: 2.0



RMIT Classification: Trusted

Safety Alert - Property Services Group Preventing Respirable Crystalline Silica Exposure

Issue Date: 24,March,2023

How to Manage the Risk

НОС	Controls
Eliminate Get Rid Of	Use materials that do not contain crystalline silica
Substitution Change/Replace	Use materials with a lower crystalline silica content Using fibre cement sheet sheers instead of circular saws
Isolation Separate	Use automated machines, Fully enclosed work areas with high efficiency air filtration Apply exclusion zones
Engineering Controls	No dry cutting, use wet methods Use on tool water suppression technology or dust extraction Use well positioned local exhaust ventilation Use H or M-class vacuums
Administrative Controls Instructions & Signs	Design shift rotations and limit task times Use signage to warn of silica dust hazards in the area Design housekeeping and cleaning policies Prepare a safe work method statement (SWMS)
PPE	Provide respiratory protective equipment (RPE) with a suitable protection factor

Click here to enter text.

Comments: For further guidance from WorkSafe Victoria.

https://www.worksafe.vic.gov.au/pdf/crystalline-silica-safety-basics

https://www.worksafe.vic.gov.au/resources/preparing-crystalline-silica-hazard-control-statement-high-riskcrystalline-silica-work

