

# Assessment to determine if the processing of a CSS is high risk – [optional template]

This template is designed to help you to document an assessment to determine if the processing of a crystalline silica substance is high risk, as defined in Chapter 8A of the WHS Regulations.

## **PCBU** obligations

If you are intending to process a crystalline silica substance (CSS)<sup>12</sup>, you **must** assess the risk and document the outcome before commencing work.

If you determine that the processing of the CSS is high risk, you **must** also complete a silica risk control plan and comply with additional regulations as outlined in the Working with crystalline silica substances guide.

#### Determining if the processing of a CSS is high risk

You must complete an assessment for each type of processing carried out at the workplace to determine if it is high risk. However, if you have more than one type of processing at your workplace occurring simultaneously, this may increase the likelihood that there will be a risk to the health of persons at the workplace. In this instance, the assessment may cover all types of processing of a CSS, and you should consider in your assessment whether this will increase the risk to the health of persons at the workplace. For example, different workers may be undertaking different types of processing in the same shift. When considered individually each type of processing might not be assessed as high risk with regard to the below considerations. However, the combined exposure to respirable crystalline silica (RCS) from multiple processes may be reasonably likely to result in a risk to the health of a person at the workplace, making the overall assessment as high risk.

When conducting this assessment, the WHS Regulations state you must have regard to:

- > the specific processing to be undertaken
- > the form or forms of crystalline silica present in the CSS
- > the proportion of crystalline silica contained in the CSS, determined as a weight/weight (w/w) concentration
- > the hazards associated with the work, including the likely frequency and duration that a person will be exposed to RCS,
- > whether the airborne concentration of RCS that is present at the workplace is reasonably likely to exceed half the workplace exposure standard,
- > any relevant air and health monitoring results previously undertaken at the workplace, and
- > any previous incidents, illnesses or diseases associated with exposure to RCS at the workplace.

You must weigh up all of the above matters when conducting the assessment and cannot solely rely on control measures implemented in accordance with sub-regulation 529B(1)(b) (duty for the processing of a CSS to be controlled) to determine that the processing of a CSS is not high risk. In addition, you must not have regard to the use of any personal protective equipment and administrative controls used to control the risks associated with RCS in the assessment.

You must record the assessment in writing, including how you have considered the above factors, and the reasons why the processing is determined to be high risk or not high risk.

<sup>&</sup>lt;sup>12</sup> A crystalline silica substance or CSS is any material that contains at least 1% crystalline silica, determined as a weight/weight (w/w) concentration.

#### Outcome of risk assessment

If you determine that your processing of a CSS is not high risk, you must still ensure any processing is controlled in accordance with regulation 529B.

If you determine that your processing of a CSS is high risk, you must complete a silica risk control plan and ensure you comply with the additional regulations applying to processing of a CSS that is high risk, which are outlined in the <u>Working</u> with crystalline silica substances guidance for PCBUs.

#### **Related guidance material**

Additional information on the duties of PCBUs when working with crystalline silica substances is included in the <u>Working with</u> <u>crystalline silica substances guidance for PCBUs</u>.

#### How to use this template

This template is an optional tool designed to assist you to determine if your processing of a CSS is high risk.

*High risk,* in relation to the processing of a *CSS* is defined in the regulations as the processing of a CSS that is reasonably likely to result in a risk to health of a person at the workplace.

Once documented, it is your responsibility to consider all factors in determining if your processing is high risk. When making this assessment, you must provide justification.

A WHS regulator has the power to inspect an assessment and require a PCBU to review it if they do not agree with the assessment outcome.

If you determine that processing of a CSS is high risk as a result of the assessment, you will need to complete a silica risk control plan, before commencing work.

While this template can be used to assist you in meeting your WHS duties, it is not mandatory to use this template, and other forms of documenting the assessment are acceptable, provided they demonstrates consideration of the matters outlined above.

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# ASSESSMENT

This assessment was prepared on /

#### **PCBU Details**

Business name:

Business address:

#### Details of person completing the assessment

Name:

Position:

Contact details:

#### Workplace(s) that this assessment covers

Please list the address(es) of the workplace(s) this assessment covers:

## Consultation

Have affected workers and their health and safety representatives (HSRs; if applicable) been consulted in the preparation of this assessment:

Yes No

Please briefly describe how workers have been consulted in the preparation of this assessment:

#### Details of crystalline silica substance (CSS)

Please list all CSS you work with (materials that contains at least 1% crystalline silica, determined as a weight/weight concentration):

If the CSS has an available safety data sheet, outline the details below:

Product name	Product supplier	Form(s) of crystalline silica present	Silica content (sourced from safety data sheet or product information)

Is a copy of the safety data sheet or product information attached to this document? Yes No

If a safety data sheet is not available or the CSS is a natural material, do you have any other information available to indicate the amount and form(s) of crystalline silica present?

Note: this may include any scientific analysis you have conducted to determine the amount and type of crystalline silica present, publicly available information from suppliers or manufacturers, scientific literature etc.

Yes No If yes, please outline below (including any references where applicable):

If there is no available information, and you have not conducted any scientific analysis, you should assume the CSS contains high levels of crystalline silica for the purposes of this assessment, until you can determine otherwise.

#### Identifying processing of a CSS

For the purpose of this assessment, a processing of a CSS means:

- a. the use of power tools or mechanical plant to carry out an activity involving the **crushing, cutting, grinding, trimming, sanding, abrasive polishing** or **drilling** of a CSS; or
- b. the use of roadheaders to excavate material that is a CSS; or
- c. the quarrying of a material that is a CSS; or
- d. mechanical screening involving a material that is a CSS; or
- e. tunnelling through a material that is a CSS; or
- f. **a process** that exposes, or is reasonably likely to expose, a person to respirable crystalline silica during the manufacture or handling of a CSS.

When carrying out processing of a CSS, the generation of harmful RCS is the predominant hazard. Please outline the factors associated with the processing occurring at your workplace in the table below to help you assess likely exposure to RCS. If you have more than one processing task at your workplace occurring simultaneously, please document for each task.

In considering the likely exposure to RCS, you **may** take into account any isolation or engineering controls in place to control RCS, but you cannot take into account any administrative controls or personal protective equipment.

Location	Task	Frequency and duration	Isolation or engineering controls	Likelihood of exposure to RCS
<i>Example only</i> Fabrication workshop – cutting bench	Cutting granite with a bridge saw	2 workers cutting granite for 2 hours per day, 3 times per week	Wet suppression system using built in blade water feed nozzle	

#### Pevious air monitoring results

You must consider any relevant RCS air monitoring results for your workplace. This means that you should ensure the air monitoring results are relevant to the CSS, task, controls and conditions at your workplace. You may also attach relevant air monitoring reports to this assessment as evidence.

If you have previous air monitoring results that are relevant to the processing of a CSS being assessed, please use the table below to document them.

Details	Task details	RCS airborne concentration	Recommended actions
Carried out by: [insert name of independent competent person] On: [Insert date] In response to: [insert specific trigger or routine]			

## Airborne concentration of RCS

You must consider whether the airborne concentration of RCS is reasonably likely to exceed half the workplace exposure standard.

As you are considering the airborne concentration of RCS, not the actual exposure of workers to RCS, you must not take into account any protection provided by respiratory protective equipment.

If you have previous RCS air monitoring results from your workplace that are relevant to the processing of a CSS being assessed, you should use this data to inform your assessment. However, it is not a requirement to perform new air monitoring to assess whether you are likely to exceed half the workplace exposure standard. You can use personal exposure data obtained from other sources, including:

- > the manufacturer of the control or tool used,
- > an industry association, or
- > a certified occupational hygienist<sup>13</sup>

If you are using exposure data from air monitoring that was not conducted in your workplace, you should ensure the data is relevant to the task, controls and conditions in your workplace.

If you are unsure whether the airborne concentration of RCS is reasonably likely to exceed half the workplace exposure standard, you should indicate yes, until you can determine otherwise (by completing further air monitoring).

Please refer to Part 4.2.5 of the <u>Working with crystalline silica substances guidance for PCBUs</u> for further information on completing this section.

Is the airborne concentration of RCS at the workplace reasonably likely to exceed half the workplace exposure standard? Yes No

Do you have exposure data that supports your determination of whether the airborne concentration of RCS at the workplace is reasonably likely to exceed half the workplace exposure standard? Yes No

If yes, please outline in the table below the exposure data you have used to base your assessment.

Type of evidence	Source	Results/data
For example – air monitoring results, exposure data	For example – scientific literature, safety data sheet, manufacturer publication, industry association, certified occupational hygienist etc.	

13 Best practice is to use a certified occupational hygienist. However, there may be circumstances where a certified occupational hygienist is not available. Where a certified occupational hygienist is not available, a person with knowledge and experience in occupational hygiene can be used instead.

## Previous health monitoring

You must consider any health monitoring performed at your workplace previously and consider the findings of that monitoring, if they are relevant to your processing of a CSS. This means that you should ensure the health monitoring results are relevant to the CSS, task, controls and conditions at your workplace.

#### Have you previously provided health monitoring for workers at your workplace?

Yes No

Are these results relevant to the processing of a CSS being assessed?

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Yes No

If yes, please provide details below.

Carried out on: /

In response to: [insert specific trigger or routine]

Frequency of health monitoring:

Do not record personal or confidential health information about individuals in this assessment.

#### Previous incidents, illnesses or diseases

You must record any previous incidents, illnesses or diseases associated with RCS at your workplace, this may include adverse health monitoring findings. You must have regard to this in assessing whether the processing of a CSS is high risk.

Details should be recorded in the table below.

Details of incidents, illnesses and diseases/ adverse health monitoring outcomes	Has this been reported to the WHS Regulator?	Actions arising

Do not record personal or confidential health information about individuals in this assessment.

## Outcome and justification

You must now use all the information documented in previous sections to determine if your processing of a CSS is high risk. In making this assessment, you must weigh up all of the relevant factors. Processing of a CSS is considered high risk if it is reasonably likely to result in a risk to the health of a person at the workplace. If you determine that processing of a CSS is not high risk, you must be able to explain why it is more likely than not that the process is not high risk.

If you are unable to determine if your processing of a CSS is high risk, you must treat it as if it is high risk until you are able to determine otherwise.

Having regard for all the above matters, is the processing of a CSS high risk?

Yes No

Please provide justification of the assessment outcome:

# **NEXT STEPS**

If you have determined your processing of a CSS is high risk, you must:

- > complete a silica risk control plan, and
- > attach a copy of this assessment.

If you have determined your processing of a CSS is not high risk, you must:

- > ensure processing is controlled, in accordance with **regulation 529B** (as explained in more detail in the *Working with crystalline silica substances* guidance for PCBUs), and
- > ensure you comply with all other duties under WHS laws, including in relation to other hazards that may present a risk while undertaking your processing of a CSS.

# **APPENDIX**

You may attach copies of the following documents to support this assessment:

- > any safety data sheets, product information, literature or other suitable evidence used to support this plan.
- > any scientific analysis of a CSS to determine its crystalline silica content.
- > relevant occupational hygiene air monitoring reports.