

GUIDANCE FOR EMPLOYERS ON CONTROLLING EXPOSURE TO RCS IN THE WORKPLACE

EXPOSURE TO RCS IN THE WORKPLACE

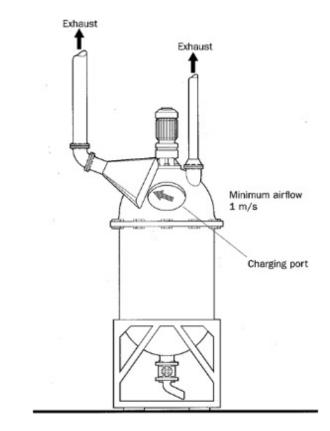
GOOD PRACTICES FOR MIXING OF MATERIALS

This sheet provides guidance on the design and use of equipment used for the mixing of products containing crystalline silica, particularly dry products.

Restrict access to the work area to authorised personnel only.

A DESIGN AND EQUIPMENT

- Ensure that mixers are fit for purpose and that they are well maintained.
- Enclose mixers as much as possible.
- Mixer lids and other access points should be sealed to prevent the escape of dust.
- All covers and access doors must be securely closed before starting the mixer.
- The mixer charging point should be enclosed and provided with local exhaust ventilation.
- Alternatively, local exhaust ventilation can be supplied at points inside the lid or rear of the mixer casing, so that there is a net influx of air through the charging point and into the mixer.
- All extraction systems should be designed so as not to draw excessive amounts of raw material from the mixer.
- When producing a dry mix, consider arrangements for dustfree discharge of mixed products. eg direct discharge to an enclosed conveyor system. Alternatively, provide local exhaust ventilation at the discharge point.
- Local exhaust ventilation systems must be connected to a suitable dust extraction unit.
- Where possible, mixer charging points should be located away from doors, windows and walkways to prevent draughts affecting the performance of local exhaust ventilation systems.
- Provide a clean air supply to the workroom to replace extracted air.



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imes maintenance

- Ensure equipment used in the task is maintained as advised by the supplier/installer in efficient working order and in good repair.
- Replace consumables (filters etc.) in accordance with the manufacturer's recommendations.

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P EXAMINATION AND TESTING

- Visually check the cleaning equipment for signs of damage at least once per week or, if it is in constant use, check it more frequently. If used infrequently, then check it before each use.
- Obtain information on the design performance of dust suppression and/or extraction equipment from the supplier. Keep this information to compare with future test results.
- Keep records of inspections for a suitable period of time which complies with national laws (minimum five years).
- Put in place measures to control the risk of bacterial growth within water sources used across site, focusing most on systems where water droplets will be generated.

CLEANING AND HOUSEKEEPING

- Clean your workplace on a regular basis.
- Store containers in a safe place and dispose of empty containers safely.
- Put lids on containers immediately after use.
- Deal with spills immediately.
- DO NOT clean up with a dry brush or using compressed air.
- Use vacuum or wet cleaning methods.

- Give your employees information on the health effects associated with respirable crystalline silica dust.
- Provide employees with training on: dust exposure prevention; checking controls are working and using them; when and how to use any respiratory protective equipment provided and what to do if something goes wrong. Refer to task guidance sheet
 2.3.4 and part 1 of the Good Practice Guide.

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SUPERVISION

- Have a system to check that control measures are in place and that they are being followed. Refer to task guidance sheet **2.3.3**.
- Employers should make sure that employees have all the means to perform the checklist given below.

PERSONAL PROTECTIVE EQUIPMENT

- Refer to task guidance sheet **2.1.15** dedicated to Personal Protective Equipment.
- Risk assessment must be carried out to determine whether existing controls are adequate. If necessary, respiratory protective equipment (with the appropriate protection factor) should be provided and worn.
- Provide storage facilities to keep personal protective equipment clean when not in use.
- Replace respiratory protective equipment at intervals recommended by its suppliers.

EMPLOYEE CHECKLIST

Make sure the work area is well ventilated and that any dust extraction system is switched on and is working correctly.

Clear up spills straight away. Use vacuum or wet cleaning methods. Dispose of spills immediately.

]	Look for signs of damage,
	wear or poor operation
	of any equipment used.
	If you find any problems,
	tell your supervisor.

If you think there is a problem with your dust control equipment, ensure additional control measures are taken to reduce exposure to respirable crystalline silica dust while the problem persists.

Use, maintain and store any respiratory protective equipment provided in accordance with instructions. Check and implement the measures of controlling the risk of bacterial growth within water sources used across site, focusing most on systems where water droplets will be generated.

This guidance sheet is aimed at employers to help them comply with the requirements of workplace health and safety legislation, by controlling exposure to respirable crystalline silica. Specifically, this sheet provides advice on dust control when mixing materials containing crystalline silica dust.

Following the key points of this task guidance sheet will help reduce exposure.

Depending on the specific circumstances of each case, it may not be necessary to apply all of the control measures identified in this sheet in order to minimise exposure to respirable crystalline silica. i.e. to apply appropriate protection and prevention measures. This document should also be made available to persons who may be exposed to respirable crystalline silica in the workplace, in order that they may make the best use of the control measures which are implemented.

This sheet forms part of the Good Practices Guide on silica dust prevention, which is aimed specifically at the control of personal exposure to respirable crystalline silica dust in the workplace.