

This guidance sheet is aimed at employers to help them

the Control of Substances Hazardous to Health Regulations 2002 (COSHH) by controlling exposure to chemicals and protecting workers' health.

comply with the requirements of

The sheet is part of the HSE guidance pack COSHH essentials: easy steps to control chemicals. It can be used where the guide recommends control approach 2 (engineering control) as the suitable approach for your chemical(s) and task(s).

This sheet provides good practice advice on weighing medium quantities of solids. It describes the key points you need to follow to help reduce exposure to an adequate level.

It is important that all the points are followed.

Some chemicals can also be flammable or corrosive. Where they are, your controls must be suitable for those hazards too. Look at the safety data sheet for more information.

Depending on the scale of work, releases into the atmosphere may be regulated within the pollution prevention and control (PPC) framework. You should consult your local authority or the Environment Agency. In Scotland, consult the Scottish Environment Protection Agency (SEPA). They will advise you if PPC legislation applies to your company, and about air cleaning and discharging emissions into the air. Otherwise, minimise emissions into the air.

Weighing solids

Engineering control

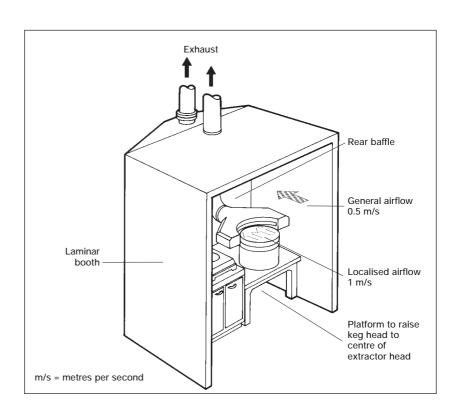
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Access

Restrict access to the working area to authorised staff only.

Design and equipment

- ✓ The general airflow into the enclosure should be at least 0.5 metres per second.
 The airflow towards the hood slots should be at least 1 metre per second.
- ✓ Enclose the weigh station as much as possible (see illustration).
- ✓ Make the enclosure deep enough to contain equipment and materials.
- ✓ Keep the open area as small as possible while allowing enough room for safe working. Use see-through panels and plastic strips to reduce the open area.
- ✓ Provide good lighting. It should be suitable for the chemical(s) and task(s), eg dust tight or flameproof.
- ★ Avoid using deep kegs or kegs over 25 kg.
- ✓ Where possible, locate the work area away from doors, windows and walkways to stop draughts interfering with the ventilation and spreading dust.
- ✓ Provide an air supply to the workroom to replace extracted air.
- ✓ Provide an easy way of checking the control is working, eg a manometer, pressure gauge or tell-tale.
- ✓ Discharge extracted air to a safe place away from doors, windows and air inlets.
- ✓ You can re-circulate clean filtered air into the workroom.



Maintenance

✓ Maintain the equipment as advised by the supplier/installer, in efficient and effective working order.

Examination and testing

- ✓ Get information on the design performance of the ventilation equipment from the supplier. Keep this information to compare with future test results.
- ✓ Visually check the ventilation equipment at least once a week for signs of damage.
- ✓ Have ventilation equipment examined and tested against its performance standard - generally at least every 14 months (see HSE publication HSG54).
- Keep records of all examinations and tests for at least five years.

Cleaning and housekeeping

- ✓ Clean work equipment and the work area daily. Clean other equipment and the workroom regularly once a week is recommended.
- Deal with spills immediately.
- Store containers in a safe place and dispose of empty containers safely (see CGS 101).
- ✓ Put lids on containers immediately after use.
- X Don't clean up with a dry brush or compressed air. Vacuum or wet clean.

Personal protective equipment (PPE)

- ✓ Chemicals in hazard group S can damage the skin and eyes, or enter the body through the skin and cause harm. See CGS S100 and S101 for more specific advice. Check the safety data sheets to see what personal protective equipment is necessary.
- ✓ Ask your safety clothing supplier to help you select suitable protective equipment.
- ✓ Respiratory protective equipment should not be necessary for routine operations. It may be necessary for some cleaning and maintenance activities, eq cleaning up spills.
- ✓ Keep PPE clean, and replace it at recommended intervals.

Training

- Give your workers information on the harmful nature of the substance.
- ✓ Provide them with training on: handling chemicals safely; checking controls are working and using them; when and how to use any PPE you provide; and what to do if something goes wrong.

Supervision

✓ Have a system to check that control measures are in place and being followed.

Further information

- Safety data sheets
- Maintenance, examination and testing of local exhaust ventilation HSG54 (second edition) HSE Books 1998 ISBN 0 7176 1485 9
- An introduction to local exhaust ventilation HSG37 (second edition)
 HSE Books 1993 ISBN 0 7176 1001 2
- Control guidance sheets 101, 204, S100 and S101

for making the best use of the controls
Make sure the ventilation system is switched on and is working.
Make sure it is running properly; check the manometer, pressure gauge or tell-tale.
Look for signs of damage, wear or poor operation of any equipment used. If you find any problems, tell your supervisor. Do not carry on working if you think there is a problem.
Make sure that paper bags and other waste material aren't drawn into the ventilation duct.
Make sure that large items do not obstruct the working opening.
Wash your hands before and after eating, drinking or using the lavatory.
Do not use solvents to clean your skin.
Clear up spills immediately. Use vacuum cleaning or wet mopping. Dispose of spills safely.
Use, maintain and store any PPE provided in accordance with instructions.



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