

Safer Chemical Handling

Safer handling

Be knowledgeable of how the products affect the environment and your health. Be sure to take careful safety measures to prevent the harming of any person or the environment. Some safety measures within a business can be:

- Having a procedure for handling chemicals.
- Having adequate safeguards in place to allow for appropriate and secure chemical handling.
- Having the appropriate packaging and containers used when handling chemicals.
- Having safety instructions on site for all chemicals with an orange hazard label.
- Having a chemical inventory list of all chemical reagents.
- Having the appropriate equipment to take measures in case of an accident — even if the accident is only very minor.
- Having a well thought-out, organized plan with clear division of responsibilities.
- Having knowledgeable and trained personnel.

Handling of Chemicals

With the handling of chemical products (including oils) and dangerous waste, measures must be taken to prevent any leakage into storm water, wastewater or the surrounding environment.

- All handling must be done on impermeable surfaces so that chemical spills and contaminated water can be collected and disposed of.
- Equipment to prevent chemical spills must be readily available for personnel.
- Use an absorbent material to neutralize the spill of any dangerous waste.

Storage

Tanks, barrels or cans may be used for storage.

- Storage of chemicals and dangerous waste in either liquid or solid form must be in a space with solid ground. Floor drains connected to the storm water or wastewater system must not be present in these areas.
- Liquid chemicals, along with dangerous waste must be stored in a safe enclosure which has enough space to accommodate at least the largest container volume plus 10% of the sum of the other container volumes.
- Dusty chemicals must be stored in such a way so that dust is not distributed into the surrounding environment.
- Products that emit volatile substances must be stored so that evaporation does not occur.
- Must have the appropriate safeguards to prevent any damage of the containers.
- Store chemicals indoors rather than outdoors. However, if outdoor storage is necessary, it must have appropriate rain protection and be a significant distance from storm water drains.
- Storm water drains in factory sites must be clearly marked with signs or other form of marking so that it can be localized and turned off even during winter. In areas where extensive oil-handling is done, the drains must be connected to oil separators.

To consider when filling, decanting, dosing and transferring!

- Strive for closed-handling.
- Handling of containers with bottom ventilation must be done inside the enclosed area.
- It is safer to pump chemicals rather than pour them.
- DO NOT completely fill liquid containers. Changing temperatures can affect the liquids' volume.

Think about!

- If a spill does occur, contact the Emergency Services and the Environmental Services department. If there is a risk that the spill will affect either the storm water or wastewater network, you should even contact the Technical Office.
- Many chemicals burn easily. Therefore, "flammable state" may be required. Contact the Emergency Services for more information.
- Consider water conservation.

Self control

Regulatory, operational inspection and preventative maintenance should be performed regularly. Instructions and control measures should be recorded. It is important to read the products' safety precautions to understand the risks of the products. Consider alternative solutions to avoid using the most dangerous chemicals.

NOTE: New hazard labelling of chemicals (CLP-Regulations): parallel legislation inclusive 2015.

Dangerous chemicals can be marked with hazard symbols, danger and risk phrases according to earlier rules or with so-called hazard pictograms, signal words and hazard statements according to the new legislation, see www.kemi.se.

Contact

Would you like to know more? The officers at the Environmental Services department can be reached by telephone at 036-10 50 00, e-mail miljo@jonkoping.se or visit our webpage at www.jonkoping.se