












## DLS Hazardous Materials Storage and Spills

A range of hazardous substances are widely used or stored in various quantities across most of the DLS operations. The use and storage of these substances requires preplanning for the safe containment of these substances at all times to prevent the spills to ground / water and subsequent contamination.

### Storage of hazardous substances

- All hazardous substances must be stored in a primary container which is secure location where its hazardous properties cannot effect its surrounding environment through breach of either its primary container or through the secondary storage.
- All storage areas must be in a bunded area capable of containing (through ground and bund walls) 150% of the storage facilities capacity.
- Signs must be placed at the storage area indicating Hazardous Substances.
- A no smoking policy is to be enforced in or around the hazardous substances storage area.
- No smoking paraphernalia or other potential ignition equipment is to be carried on the diesel bowser.
- Any potential breach of containment is to be immediately reported to the Site Manager.
- It is the responsibility of the Site Manager to ensure that adequate storage is proved for the containment of hazardous substances.
- Hazardous substances can react with each other so that dangerous gases or vapours may be released or hazardous situations such as explosions, new hazardous substances therefore must be compartmentalized storage. By partitioning the substances and separated so that no dangerous combinations can occur.

						
	✓	X	X	X	X	✓
	X	✓	X	X	X	X
	X	X	✓	X	X	✓
	X	X	X	✓	X	X
	X	X	X	X	✓	O
	✓	X	✓	X	O	✓

- ✓ Can be stored together
- X Can **NOT** be stored together
- O Can only be stored together if certain specific prevention measures are adopted

### Small Spills (Less than 20l)

- Inform the relevant Manager of the spillage immediately.
- Appropriate PPE must be worn to clear the spillage.
- Marked out the area with cones before obtaining the appropriate cleaning materials and signage.
- Reference must be made to the COSHH policy and / or the instructions on the product MSDF in order that any safety and environmental precautions may be observed.
- Spill kits are to be utilised to surround, contain and absorb hazardous substances.

## DLS Hazardous Materials Storage and Spills

- If the ground is a hard non permeable surface (concrete, brick, tile, metal etc.) the hazardous & clean up materials are to be shovelled/ swept up into a non-permeable container for disposal.
- If the ground is a permeable surface (soil, gravel etc.) the hazardous and clean up materials are to be excavated (by manual or mechanical means) removing all the surrounding contaminated ground. The removed material is to be stored in a non-permeable container or transport vehicle for disposal.
- For the permeable surfaces backfill material is to be placed where any excavation of ground materials took place.

### Large Spills (Greater than 20l)

- Inform the relevant Managers set up in the “DLS-MP-29 Emergency Preparedness Response”. If the appointed DLS manager cannot be reached, contact the next available manager in the DLS Emergency contact list.
- The Environmental Manager will contact the client (if applicable) and notify the Natural Resources Wales or other governing bodies of the incident and any immediate environmental concerns (adjacent or nearby water courses, etc.).
- Marked out the area with cones to block access to the area before leaving to obtain the appropriate cleaning materials and signage.
- Where applicable and safe, stop / divert flow of hazardous substances away from any observed potential major environmental or health & safety risks (ignition sources, water courses)
- Reference must be made to the COSHH policy (DLS-MP-59 COSHH) and / or the instructions on the product MSDF in order that any safety and environmental precautions may be observed.
- Appropriate PPE must be worn to clear the spillage.
- Remove all potential ignition sources where safe to do so.
- In the event of flammable or explosive substances being spilled:
  - Cone off the area at the furthest practical and safe distance to prevent any persons from coming into contact.
  - Only apply spill kits if there is no potential risk of ignition.
  - If the spill in a populated area or adjacent to a site facility inform the area representative of the hazard.
  - Leave the area and wait at safe distance for DLS management and emergency response teams to arrive. Do not under any circumstances re-enter the area.
  - Emergency services and specialists will be consulted in the production of a bespoke Risk Assessment and Job Method Statement for the remediation of the contaminated area.
  - All radiation work will be carried out under the direction of the emergency services.
- If the ground is a hard non permeable surface (concrete, brick, tile, metal etc.) and the substance is NOT flammable or explosive:
  - The area is to be sealed off / contained where possible using spill kits, sand or any other available absorbent materials so that no (additional) hazardous substances or clean up materials can escape containment.
  - Dependant on the volume of hazardous substances contained, specialist services may be required to extract contained hazardous material.
  - Where applicable absorbent materials are placed to soak up hazardous substances.

## DLS Hazardous Materials Storage and Spills

- Once absorbed, the materials are extracted via manual or mechanical means then placed in a haulage transport vehicle for disposal as hazardous materials. (Reference DLS Waste & Recycling Policy).
  - If residues remain the containment is to remain in place and specialist cleaning services brought in to removal any residual residues.
  - Once all residues are removed the containment materials are to be removed and taken for disposal.
- If the ground is a permeable surface (soil, gravel etc.) and /or hazardous substance from a non-permeable surface has leaked onto a permeable surface and the substance is NOT flammable or explosive:
  - The area is to be sealed off / contained where possible using spill kits, sand or any other available absorbent materials so that no (additional) hazardous substances or clean up materials can escape containment.
  - Dependant on the volume of hazardous substances contained, specialist services may be required to extract contained hazardous material.
  - Where applicable absorbent materials are placed to soak up hazardous substances.
  - The hazardous and absorbent materials are to be excavated by mechanical means, removing all the surrounding contaminated ground. The excavator will remove ground materials past the level where no visible/ immediate detectable signs of contamination (smell, colour, consistency of ground).
  - Samples of the ground at each wall and floor of the excavator are to be take and sent for analysis to determine if any further contamination of ground and excavation.
  - Excavated materials are placed in a haulage transport vehicle for disposal as hazardous materials. (Reference DLS Waste & Recycling Policy).
  - Barriers are placed around the excavation to prevent access whilst analysis of sampled materials are being carried out.
  - If the samples analysis is returned with contamination still present further excavation and sample are undertaken until no significant contamination is present.
  - Once all contamination has been removed, the excavated area is back filled to original condition and specification.