Final learning assessment

Fill in the blanks in the following sentences:

- Many compounds are unstable and can ______ rapidly, examples are inorganic and organic ______, chlorates and perchlorates. Avoid grinding and drying operations conducted with unstable compounds as they could ______ and cause _____.
- 2. **Pyrophoric materials** (e.g. lithium alkyls, metal hydrides) spontaneously combust on contact with _____: take extreme care when handling these materials.
- 3. Avoid adding ______ to a concentrated acid. Adding acid to ______ is an inherently safer process.
- 4. Keep the maximum size of bench containers less than _____ ml. This reduces the risk of ______ and consequence from an incident.
- Work equipment constructed from glass needs special consideration when used above or below ______ pressure. The stored energy involved means that any breakages will be accompanied by flying glass, so items such as glass vacuum desiccators should be protected with a ______ framework or ______. Admit air carefully and ______ before opening.
- 6. Wear gloves when handling chemicals. They should be of a suitable material to offer protection from the substance in use. Information is contained in the ______ on suitable gloves.
- 7. Consult manufacturers' charts to check '______ times'. Discarded gloves maybe classified as ______ waste for disposal purposes.
- 8. The ______ should be kept ______ when you are not actively working in at the fume cupboard. In the event of an explosion, the ______ acts as a shield and it also provides containment in the event of fire.
- 9. Keep electrical equipment away from _____ materials and from water.
- 10. If you are storing flammable materials in a fridge, then make sure that the fridge is rated for flammable atmospheres, i.e. it is '_____ free'.
- 11. Any spillages on the bench should be cleaned up ______, while being mindful of the nature of the chemicals involved.
- 12. Burns can be ______ or chemical. They should be immersed in cold ______ immediately, or washed in running water for a length of time to cool or removed from contamination before covering with a dry dressing.
- 13. Be aware of the emergency _____ measures required. Specifically, take note of the materials being used and the advice given on the safety data sheet (SDS) for the treatment of exposure.





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