

Subject : Business Studies

Topic : Need for Monitoring and Controlling
of Chemicals

Class : JSS 1

Week : Week 7

Learning Objectives

1. Explain the meaning of chemicals;
2. Differentiate between chemicals suitable and the ones not suitable for use;
3. Mention with examples types of chemicals;
4. Explain the need for monitoring and controlling of chemicals;

Meaning of Chemicals

A chemical is any substance that has a defined composition. Some chemicals occur in nature, such as water. Other chemicals are manufactured, such as chlorine (used for bleaching fabrics or in swimming pools). Chemicals are all around us; the food we eat, the clothes we wear and others.

A chemical is also define as any substance which is capable of breaking down, or combining with its kind or other substances under a suitable environment, to become a new substance, having a completely different character, behavior, quality or use.

A chemical can be in different types;

1. **solid** such as ice and gold.
2. **liquid** such as water and petrol.
3. **gas** such as air and cooking gas.

Chemicals suitable for use and those not suitable for use. The National Agency for Food and Drug Administration and Control (**NAFDAC**) classified chemicals according to their suitability and unsuitability.

S/NO	Characteristics of chemicals suitable for use (Non-hazardous chemicals)	Characteristics of chemicals not suitable for use (hazardous chemical)

1.	Safe	Dangerous
2.	Harmless	Harmful traits particularly when ingested or by mere contact.
3.	Can be inhaled and ingested	Destructive to life and the environment, can't be inhaled
4.	Non toxic	Toxic
5.	Non-irritant	Irritant
6.	Non-corrosive	Corrosive
7.	Non-radioactive	Radioactive
8.	Non – flammable	Flamable

NEEDS FOR MONITORING AND CONTROL

NAFDAC regulates, monitors and controls the importation, exportation, manufacture, advertisement, distribution, sale and use of foods, drugs and chemicals.

This is to

1. Ensure compliance with standard specifications designated and approved by the council.
2. Enable appropriate investigation into the production premises and raw materials.
3. Establish relevant quality assurance system.
4. Ensure that advertisements in the print and electronic media are not abused
5. Monitor the utilization of controlled chemical substances
6. Scrutinize the disposal records of chemicals
7. Ensure non-diversion of chemicals for illicit usage
8. Ensure that people less knowledgeable or completely ignorant are not allowed to work with chemicals or come near them.

9. Ensure that handlers of chemicals are kitted with safety gadgets
10. Ensure that chemicals are not sold in residential areas.
11. Ensure that food and pharmaceuticals are not stored in the same place with pesticides and industrial chemicals
12. Ensure safe handling of foods, drugs and chemicals; and
13. Ensure safe distribution of foods, drugs and chemicals

Assignment

1. Define a chemical
2. List four (4) suitable and four (4) not suitable chemicals for use
3. State five (5) needs for monitoring and control of chemicals