

Chemical Spill

The Situation

A train wreck has caused the spill of the following materials.

1. Chlorso, a proprietary chemical being developed by a defense contractor. It has properties similar to table salt.
2. Iron filings (that is, tiny pieces of iron).
3. Motor oil

The spill occurred onto sandy soil near a stream. If the oil were to enter the stream, it could cause serious pollution problems.

Therefore, a Hazardous Materials (HazMat) Response company was called in. The oil was soaking into the soil and moving towards the stream. The company excavated a large amount of soil along with the spilled materials. Everything was then loaded into trucks and taken to the company's handling facility.

Your Task

The companies that own the Chlorso, iron filings and motor oil would like as much of each recovered as possible.

- Design a process that the HazMat company could use to separate all of the materials.
- Write a minimum of four (4) sentences to describe the process.
- You need to state what property of each substance you are using in the process.
- Include a series of pictures to illustrate the process you describe.