WHMIS Workplace Hazardous Materials

Information System

pneumatic system a closed system using air under

pressure to move loads

hydrometer

is a device used to measure the density of a substance directly

homogeneous a solution that looks like it is just one substance

suspension

a cloudy mixture with particles of one substance held within another

chromatogram

the filter paper used to test a solution to determine if it is pure or mixed

concentration

is the amount of solute dissolved in a specific amount of solvent

solubility

the maximum amount of solute that can be dissolved in a fixed amount of solvent, at a given temperature

aqueous

a solution in which the solvent is water

viscosity

the rate of flow of a fluid

hazard symbol

a safety system providing a shape and symbol describing a hazard

fluid

a substance that has no fixed shape and flows

pure substance a substance made up of only one type of matter

heterogeneous a mixture in which all the part of the mixture are visible

solution a mixture of two or more substances that appears to be one substance

solute the substance that dissolves

saturated a solution in which no more solute can be dissolved

saturation point this is the point at which no more solute can be dissolved in a solvent

Particle Model a scientific model that is used to

explain matter and its properties

viscous

a term that identifies how thick or thin a fluid seems to be – or how quickly or slowly it will flow

hydraulic system

a closed system using liquids under pressure to move loads

slurry

a solution of solid (small) particles mixed with water

mixture

a substance that has more than one type of matter

colloid

a cloudy mixture with tiny particles of one substance held within another and are difficult to separate out

paper chromatography

a test used to determine if a solution is a pure substance or a mixture

solvent

the substance that does the dissolving

unsaturated a solution in which more solute can be dissolved

insoluble

a solute that is unable to be dissolved in a solvent

dissolving

particles of a solute separate and fill the spaces within the particles of the solvent

ramp method

a procedure used to pour fluids down a ramp - to test their viscosity

density

is the amount of matter in a given volume

positive buoyancy (float)

when the buoyant force is greater than the force of gravity

Plimsoll line

a line painted on a cargo ship to show how much the ship can safely be loaded in different water densities

pressure

is the amount of force applied to a given area

The 'bends'

a decompression sickness resulting from divers ascending too quickly from a dive

bitumen

a type of viscous substance that is commonly referred to as coal or oil

bathyscaph

a deep ocean underwater ship designed to withstand extreme pressure

ballast tanks

chambers between the inner and outer hulls of a submersible that can be filled with water or air - allowing it dive or float

buoyancy

is the tendency of an object to float when it is placed in a fluid

negative buoyancy (sink)

when gravitational force is greater than the buoyant force

compressibility

a force acting on an object causing the particles to come closer together

Pascal's Law

an enclosed fluid transmits pressure equally in all directions throughout the fluid

hyperbaric chamber

a high pressure chamber used to treat divers suffering from the bends

diaphragm pump

is a pump which uses a flexible membrane that can be moved to compress or decompress fluids in a closed system

submersible

a ship designed to travel beneath the surface of water

buoyant force

the upwards force of a fluid acting on an object – opposing gravity

neutral buoyancy (suspend)

when the force of gravity and the buoyant force are equal

incompressible

unable to be compressed (reduce space between the particles)

SCUBA

self contained underwater breathing apparatus

pump

a device used to force fluid into or through something

valve

a device used to control or regulate the flow of a fluid in a closed system

submarine

a submersible designed to change density using ballast tanks, allowing it to float or sink