

CLASSIFICATIONS AND HANDLING OF DANGEROUS SUBSTANCES Dangerous materials are having specific physical or chemical properties that could lead to potential hazard to human safety and health if not controlled properly. Hydrogen Peroxide and Lead Nitrate are examples of this category. Many of the are reactive and are liable to heating up. Three subcategories of flammable solids are Class 4.1 – Flammable solids that burns and decompose explosively and emits toxic gases, Class 4.2 – Spontaneous Combustible that react quickly with oxygen, Class 4.3 – dangerous when wet as they react with water producing flammable gases that could be ignited by the heat. Most of them are dangerous as they affect the human metabolism or react with oxygen and would result in the release of toxins and poisonous substances Class 3: Flammable Liquids – Flammable liquids are combustible at low temperatures and encounters huge risk of exposing to ignitions Class 4: Flammable Solids – Flammable solids are dangerous as they are easily combustible while transporting. Calcium carbide on contacting .with water produces acetylene gas which is easily combustible is an example of this category