



SAFETY UNLIMITED, INC.

Safety Tip of the Week

Dangers of Oil- and Solvent-Soaked Rags

The accumulation of oil-soaked or solvent-soaked rags in the normal daily function of a shop, manufacturing, or construction environment can be a major safety issue. Oil-soaked rags are a spontaneous combustion hazard because as the oil oxidizes, heat is released. If the heat is not dissipated, it can build up and ignite the rags.

Spontaneous ignition occurs when a combustible object is heated to its ignition temperature by a chemical reaction involving the oxygen in the air around us. This "oxidation" process creates heat that, if not dissipated, will build up until ignition occurs.



Fire Caused by Spontaneous Ignition (Oily Rags)

Controlling Spontaneous Combustion:

Storing oil-soaked rags in specially designed metal cans that safely contain a self-ignited fire controls the danger of spontaneous combustion. These containers are made of metal and have self-closing covers and should not have plastic liners. These containers allow air to flow around the rags, thus dissipating the heat.

The risk of spontaneous combustion is virtually eliminated by limiting the oxygen in the container. The oxidation process will use up the oxygen in the container stopping the reaction, thus preventing a fire.

Oily waste containers should bear the label of a recognized testing laboratory such as Underwriters Laboratories. The label will ensure the product has been tested and certified to meet the high standards of safety and quality. OSHA Compliant Oily Waste Cans are essential whenever solvent-soaked cloths and wiping rags are used.

SAFETY CAN DISTINGUISH YOU...LACK OF SAFETY CAN EXTINGUISH YOU!!