



اوتو ستيقو تنيكو لوجي مارا  
UNIVERSITI  
TEKNOLOGI  
MARA

Perpustakaan  
Tun Abdul Razak

# FLAMMABLE CHEMICALS

UiTM *di hatiku*

PTAR

"LIBRARY for ALL"

LRQA  
CERTIFIED  
ISO 9001



UKAS  
MANAGEMENT  
SYSTEMS  
0048803

**Flammable chemicals are chemicals that easily react with oxygen to cause a fire.**

**Chemicals are divided into 3 states of matter, namely:  
solids, gases, and solutions.**

**All forms of chemicals have an equal chance of causing a fire. Depending on the temperature, situation and conditions because in some cases there are chemical compounds that can burn when reacting with water.**



## Examples of flammable chemicals

Chlorine Trifluoride  
(FCI3)

Gasoline

Acetone

Ethanol

Xylene

## Chlorine Trifluoride (FCI3)



Chlorine trifluoride is a chemical that can be said to be the most flammable, because chlorine trifluoride can react with anything and does not require an ignition source to cause a fire. Chlorine Trifluoride is generally used as a raw material for making rocket fuel, military purposes, etc. Read also about oxidizing chemicals.



## Gasoline

Gasoline is a chemical that we often encounter, because this material is a source of energy for motorized transportation ranging from cars to bentor (motor rickshaw), so of course it will be everywhere. Gasoline is flammable because gasoline is formed from a chain consisting of carbon and hydrocarbons which are very easily bonded with oxygen to form CO<sub>2</sub> and H<sub>2</sub>O as well as heat energy.



# Acetone



Acetone ( $\text{CH}_3\text{COCH}_3$ ) is a chemical compound that is generally colorless and has a pungent odor. Acetone is often used in the home industry, beauty, and so on. Acetone is flammable because it is the same as gasoline/petrol whose chains consist of carbon and hydrocarbons.



# Xylene



Xylene ( $C_8H_{10}$ ) is a chemical compound that we often encounter as an ingredient in spray paint. This material often makes the head feel dizzy and nauseous after some time inhaling this gas. Therefore, when painting with xylene-based paint, we should do it in a place with good air circulation, and if in the room, open the air vents wide.



# Ethanol



The perfume that we use every day is an example of a flammable chemical, because perfume contains ethanol ( $C_2H_6O$ ). Not only perfume, deodorant, cologne, hair spray, mouthwash, and many other household products are also made from ethanol. Read also about explosive chemicals.

