

Safety

8 Do you know how to prevent fire disasters?

Flame, the cause of fires, is an oxidation reaction (combustion) by light and heat generation. Combustion needs three essential elements: a source (heat energy), combustible materials, and oxygen (or air).

It means that it is necessary to have no flame or control flame in order to prevent fire disasters. It is better for controlling heat sources or flammable materials in order to control flame. An example of heat source and flammable materials (hazard source) are as follows:

heat source	flammable materials
<ul style="list-style-type: none">• Flame of match and lighter• Firework• Flame of gas heater and stove burner.• Cigarette• Electrical outlet and electric cord and so on.	<ul style="list-style-type: none">• Papers• Clothes• Combustible material, flammable substance and so on.

It is necessary to adjust the level of flame and the amount of heat in order to control heat source.

And it is necessary to keep flammable materials away from heat source in order to control them. Or replace flammable materials by incombustible materials. Do not use old rubber tube gas for gas heater and stove burner to avoid gas leak.

When using flammable substances (gas and organic solvents), it is necessary to keep them away from heat source sufficiently. Understand that solid or liquid flammable substances produce flammable gas, and the flammable substances start burning when the flammable gas contact heat source. Remember that electrical spark of machines and electricity can also create fires. Place the sign "Keep fire away" in places where combustible materials/flammable substances are handled.

In order to prevent fire disasters, it is necessary to check heat source and flammable materials, control heat source, and keep the flammable materials away from heat source.