

Enforcement Order of the Industrial Safety and Health Law
Cabinet Order No. 318, August 19, 1972
Amendments:
Cabinet Order No. 240, July 28, 1999
Attached Table 1 Dangerous Substances (related to Article 1, 6, and 15).

Prohibition to use the following substances and gases on our Reactor unit

Caution: Don't enter the below mentioned things and substances including these things into the reactor unit oven absolutely. It shall cause an explosion and a fire.

1. Explosive Substances

- (1) Nitroglycerol, nitroglycerin nitrocellulose, and other explosive nitric esters, etc.
- (2) Trinitrobenzene, trinitrotoluene, picric acid and other explosive nitro-compounds
- (3) Peracetic acid, methyl ethyl ketone peroxide, benzoyl peroxide and other organic peroxides
- (4) Sodium azide and other metallic azides

2. Combustible Substances

- (1) Metallic "lithium."
- (2) Metallic "Potassium."
- (3) Metallic "Sodium."
- (4) Yellow phosphorus
- (5) Phosphorous sulfide
- (6) Red phosphorous
- (7) Celluloids and the like
- (8) Calcium carbide (calcium carbonate) (otherwise known as carbide)
- (9) Calcium phosphide
- (10) Magnesium powder
- (11) Aluminium powder
- (12) Metallic powders other than magnesium powder and aluminium powder
- (13) Sodium dithionite (sodium hydrosulfite)

3. Oxidizing Substances

- (1) Potassium chlorate, sodium chlorate, ammonium chlorate, and other chlorates
- (2) Potassium perchlorate, sodium perchlorate, ammonium perchlorate and other perchlorates
- (3) Potassium peroxide, sodium peroxide, barium peroxide, and other inorganic peroxides
- (4) Potassium nitrate, sodium nitrate, ammonium nitrate, and other nitrates
- (5) Sodium chlorite and other chlorites
- (6) Calcium hypochlorite and other hypochlorites

4. Inflammable Substances

- (1) Ethylether, gasoline, acetaldehyde, propylene oxide, carbon disulfide, and other substances (whose flash points are lower than - 30°C.)
- (2) n-Hexane, ethylene oxide, acetone, benzene, methylethylketone, and other substances (whose flash points are - 30°C or higher and lower than 0°C)
- (3) Methanol, ethanol, xylene, pentylacetate (otherwise known as amylacetate), and other substances (whose flash points are 0°C or higher and lower than 30°C)
- (4) Kerosene, light oil, turpentine oil, isopentylalcohol (otherwise known as isoamylalcohol), acetic acid, and other substances (whose flash points are 30°C or higher, and lower than 65°C)

5. Combustible gases

(hydrogen, acetylene, ethylene, methane, propane, buthane, and other combustible substances in the form of gas at 15°C and 1 atm)

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