

**Carbon Black**

- Acute toxicity:
  - oral                      rat LD<sub>50</sub> 15400 mg/kg
  - skin                     Unknown.
  - inhalation (dust)     Unknown.
- Skin corrosivity :        Unknown.
- Serious damage and irritant property for eyes:        Unknown.
- Respiratory or skin sensitization:
  - Respiratory sensitization:        Unknown.
  - Skin sensitization:                Unknown.
- Germline mutagenicity :        Unknown.
- Carcinogenicity :
  - GHS: Category 2
  - ACGIH: A3 –Confirmed animal carcinogen but relevance to human carcinogen is unknown.
  - IARC: Group 2B Possibly carcinogenic to human.
  - The cancer might be caused.
- Reproduction Toxicity :        Unknown.
- Certain target organ/ Systemic toxicity (single exposure):        Unknown.
- Certain target organ/ Systemic toxicity (repeated exposure):
  - GHS: Category 1
  - The disorder of the pulmonary is caused by long-term or repeated inhalation exposure.

**Potassium Hydroxide**

- Acute toxicity:
  - oral                      GHS: Category 3. Harmful if swallowed.
  - skin                     GHS: It is not possible to classify.
  - inhalation (steam)     GHS: It is not possible to classify.
  - inhalation (dust)       GHS: It is not possible to classify.
- Skin corrosivity :        GHS: Category 1B.
  - Serious chemical wound of the skin and damage of eyes is caused.
- Serious damage and irritant property for eyes:        GHS: Category 1.
- Respiratory or skin sensitization:
  - Respiratory sensitization:        GHS: It is not possible to classify.
  - Skin sensitization:                GHS: out of Category.
- Germline mutagenicity :        GHS: out of Category.
- Carcinogenicity :        GHS: It is not possible to classify.
- Reproduction Toxicity :        GHS: It is not possible to classify.
- Certain target organ/ Systemic toxicity (single exposure):
  - GHS: Category 1.
  - The disorder of the respiratory system is caused.
- Certain target organ/ Systemic toxicity (repeated exposure)
  - GHS: It is not possible to classify.

**Sodium Hydroxide**

- Acute toxicity:
  - oral                      GHS: It is not possible to classify.
  - skin                     GHS: It is not possible to classify.
  - inhalation (gas)        GHS: out of Category.
  - inhalation (steam)     Unknown.
  - inhalation (dust)       Unknown.
- Skin corrosivity :        GHS: Category 1.
  - Serious chemical wound of the skin and damage of eyes is caused.
- Serious damage and irritant property for eyes:        GHS: Category 1.
  - Serious damage of eyes is caused.
- Respiratory or skin sensitization:
  - Respiratory sensitization:        GHS: It is not possible to classify.
  - Skin sensitization:                GHS: out of Category.
- Germline mutagenicity :        GHS: out of Category