

TLV: Threshold limit value, TWA: Time weighed average, (T): Total dust, (R): Respirable fraction (STEL): Short term exposure limit, (resp.): respirable, (Sn), (Sb), (Zr): As elements

Personal protection equipment : Dust mask, Resistant gloves(e.g., nitrile glove), Safety goggles.

## 9. PHYSICAL AND CHEMICAL PROPERTIES<sup>1)</sup>

Appearance : Gray solid

Odor : -

Solubility: Insoluble in water

## 10. STABILITY AND REACTIVITY

Stability : Stable under normal condition and anticipated storage.

Physical conditions change :

- When combusted, harmful gases(ammonia, carbon monoxide, metal fume, etc )may be generated.

## 11. TOXICOLOGICAL INFORMATION

Dust is harmful and if inhaled in high dose, it may cause health disorder.

- Acute toxicity<sup>1)2)</sup>

Rat(Oral) ; LD<sub>50</sub> 5000 mg/kg (Benzophenol based resin),

LD<sub>50</sub> 7340 mg/kg (Calcium hydroxide)

Rat(Dermal) ; LD<sub>50</sub> 2000 mg/kg (Benzophenol based resin)

LD<sub>50</sub> : Lethal dose 50% kill

Skin corrosion/irritation<sup>1)2)</sup> :

Dust, and calcium hydroxide cause mild skin irritation and corrosion.

Wash all exposed area of skin with plenty of soap and water so that transient skin reaction(pruritus, erythema) may not occur.

Serious eye danger/eye irritation<sup>1)</sup> :

Dust causes eye hurt. Calcium hydroxide may be corrosive to eyes.

Respiratory sensitization/Skin sensitization<sup>1)</sup> : -

Germ cell mutagenicity : -

Carcinogenicity<sup>1)3)4)</sup> :

IARC ; Group 3 (Not classifiable as to their carcinogenicity to humans): Aramid fiber,

Glass, oxide, chemicals, Calcium meta silicate, Antimony sulfide

ACGIH; A4 (Not classifiable as a human carcinogen) : Zirconium oxide

Reproductive toxicity<sup>1)</sup> : -

Specific target organ systemic toxicity – Single exposure;<sup>1)</sup> :

Calcium hydroxide: Has been reported to cause damage to respiratory organs.

Specific target organ systemic toxicity – Repeated exposure<sup>1)</sup> :

Calcium hydroxide: May cause damage to respiratory system.

Aspiration hazard<sup>1)</sup> : Not applicable

Other information : -

## 12. ECOLOGICAL INFORMATION

Biodegradability : No relevant information found.

Eco-toxicity : The listed materials does has little acute toxicity on aquatic animals.