

D. Incompatible materials

- Not available

E. Hazardous decomposition products

- May emit flammable vapour if involved in fire.

11. TOXICOLOGICAL INFORMATION**A. Information on the likely routes of exposure**

- **(Respiratory tracts)**
 - May cause respiratory irritation.
- **(Oral)**
 - Harmful if swallowed
- **(Eye/Skin)**
 - May cause an allergic skin reaction

B. Delayed and immediate effects and also chronic effects from short and long term exposure

- **Acute toxicity**
 - * **Oral - ATE MIX : 300mg/kg < ATEmix <= 2000mg/kg**
 - [Carbon] : LD50 > 10000 mg/kg Rat (IUCLID, HSDB)
 - [Manganese] : LD50 > 2000 mg/kg Rat (OECD TG 420, GLP)
 - [Cobalt] : LD50 550 mg/kg Rat (OECD TG 425, GLP)(ECHA)
 - [Carboxymethyl ether cellulose] : LD50 > 5000 mg/kg Rat
 - * **Dermal - ATE MIX : >5000mg/kg**
 - [Cobalt] : LD50 > 2000 mg/kg Rat (Read-across: 14024-48-7, OECD TG 402, GLP)(ECHA)
 - * **Inhalation - ATE MIX : Not available**
 - [Carbon] : LC50 > 64.4 mg/l Rat
 - [Manganese] : LC50 > 5.14 mg/l 4 hr Rat (OECD TG 403, GLP)
 - [Cobalt] : LC50 ≥ 0.05 mg/l Rat (OECD TG 436, GLP)(ECHA)
- **Skin corrosion/irritation**
 - Not available
- **Serious eye damage/irritation**
 - Not available
- **Respiratory sensitization**
 - Not available
- **Skin sensitization**
 - May cause an allergic skin reaction
- **Carcinogenicity**
 - * **IARC**
 - [Nickel] : Group 2B (Nickel refinery dust)
 - [Cobalt] : Group 2B (Cobalt and cobalt compounds)
 - [Cobalt] : Group 2B (Cobalt metal without tungsten carbide)
 - [Nickel] : Group 1 (Nickel, metallic and alloys)
 - [Nickel] : Group 1 (Nickel compounds)
 - [Nickel] : Group 1 (Nickel, insoluble inorganic compounds)
 - [Nickel] : Group 1 (Nickel, soluble inorganic compounds)
 - * **OSHA**
 - Not available
 - * **ACGIH**
 - [Aluminium] : A4 (Aluminum metal and insoluble compounds)
 - [Nickel] : A5 (Nickel refinery dust)
 - [Cobalt] : A3 (Cobalt and cobalt compounds)
 - [Cobalt] : A3 (Cobalt metal without tungsten carbide)
 - [Nickel] : A5 (Nickel, metallic and alloys)
 - [Nickel] : A5 (Nickel compounds)
 - [Nickel] : A5 (Nickel, insoluble inorganic compounds)
 - [Nickel] : A5 (Nickel, soluble inorganic compounds)
 - * **NTP**