

- [Nickel] : K (Nickel refinery dust)
- [Nickel] : K (Nickel, metallic and alloys)
- [Nickel] : K (Nickel compounds)
- [Nickel] : K (Nickel, insoluble inorganic compounds)
- [Nickel] : K (Nickel, soluble inorganic compounds)
- * **EU CLP**
 - [Nickel] : Carc. 2 (Nickel refinery dust)
 - [Nickel] : Carc. 2 (Nickel, metallic and alloys)
 - [Nickel] : Carc.2 (Nickel, metallic and alloys)
 - [Nickel] : Carc. 2 (Nickel compounds)
 - [Nickel] : Carc. 2 (Nickel, insoluble inorganic compounds)
 - [Nickel] : Carc. 2 (Nickel, soluble inorganic compounds)
- **Germ cell mutagenicity**
 - Not available
- **Reproductive toxicity**
 - May damage fertility or the unborn child
- **STOT-single exposure**
 - Causes damage to organs(Refer Section SDS 11)
 - May cause respiratory irritation.
- **STOT-repeated exposure**
 - Causes damage to organs through prolonged or repeated exposure (Refer Section SDS 11)
 - May cause damage to organs through prolonged or repeated exposure (Refer Section SDS 11)
- **Aspiration hazard**
 - Not available

12. ECOLOGICAL INFORMATION

A. Ecotoxicity

- **Fish**
 - [Manganese] : LC50 >3.6 mg/ℓ 96 hr Oncorhynchus mykiss(OECD TG 203, GLP)(ECHA)
 - [Cobalt] : LC50 > 100 mg/ℓ 96 hr
 - [Copper] : LC50 = 0.0028~9.15 mg/ℓ 96 hr (ECHA)
- **Crustaceans**
 - [Manganese] : EC50 >1.6 mg/ℓ 48 hr Daphnia magna(OECD TG 202, GLP)(ECHA)
 - [Copper] : EC50 = 0.0338~1.213 mg/ℓ 48 hr (ECHA)
- **Algae**
 - [Manganese] : EC50 4.5 mg/ℓ 72 hr (Desmodesmus subspicatus)(ECHA)
 - [Copper] : LC50 = 0.0165~0.987 mg/ℓ 72hr (ECHA)

B. Persistence and degradability

- **Persistence**
 - [Carbon] : log Kow = 0.78 (Estimate)
 - [Copper] : log Kow = -0.57 (Estimate)
- **Degradability**
 - [Carbon] : BOD = 5 ca. 2mgO2/l , COD = 2000mg/g

C. Bioaccumulative potential

- **Bioaccumulative potential**
 - [Carbon] : BCF = 1.378 (Estimate)
 - [Manganese] : <81 BCF
 - [Cobalt] : BCF = 4000
 - [Copper] : BCF = 5830
- **Biodegradation**
 - Not available

D. Mobility in soil

- Not available