GHS Classification

tripotassium hexacyanocobaltate

ID1035 CAS 13963-58-1 Physical Hazards

Date Classified: May 24, 2006 (Environmental Hazards: Mar. 31, 2006)

Reference Manual: GHS Classification Manual (Feb. 10, 2006)

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Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Explosives	Not applicable	_	1	-	There are no chemical groups associated with explosive properties present in the molecules.
2 Flammable gases	Not applicable	ı	ı	_	Solid (GHS definition)
3 Flammable aerosols	Not applicable	1	1	_	Not aerosol products
4 Oxidizing gases	Not applicable	ı	ı	_	Solid (GHS definition)
5 Gases under pressure	Not applicable	-	-	_	Solid (GHS definition)
6 Flammable liquids	Not applicable	-	-	_	Solid (GHS definition)
7 Flammable solids	Classification not possible	-	-	-	Although it is inorganic cyanides and considered as nonflammable, there is no data.
8 Self-reactive substances and mixtures	Not applicable	ı	ı	-	There are no chemical groups associated with explosive or self-reactive properties present in the molecule.
9 Pyrophoric liquids	Not applicable	1	1	_	Solid (GHS definition)
10 Pyrophoric solids	Classification not possible	-	-	-	No data, although it is considered to be nonflammable inorganic cyanides (with no spontaneous combustibility).
11 Self-heating substances and mixtures	Classification not possible	-	-	-	Although it is considered to be inorganic cyanides and nonflammable (with no self-febrility), no data.
12 Substances and mixtures, which in contact with water, emit flammable gases	Not classified	-	-	-	Stable to water (readily soluble)
13 Oxidizing liquids	Not applicable	-	-	_	Solid (GHS definition)
14 Oxidizing solids	Not applicable	-	ı	_	Inorganic compounds containing no oxygen and halogen.
15 Organic peroxides	Not applicable	-	-	_	Inorganic compound
16 Corrosive to metals	Classification not possible	_	-	-	Test methods applicable to solid substances are not available.

Health Hazards

Haza	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	Acute toxicity (oral)	Category 4	Exclamation mark	Warning	Harmful if swallowed	SPECIES: Mouse ENDPOINT: LD50 VALUE: 1529mg/kg REFERENCE SOURCE: RTECS(2003)
1	• • •	Classification not possible	-	-	-	No data available
1	Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Solid (GHS definition)
		Classification not possible	-	-	-	No data available
	Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	-	No data available
2		Classification not possible	-	-	i	No data available
	Serious eye damage / eye irritation	Classification not possible	-	-	-	No data available
4		sensitization: Classification not possible; Skin sensitization: Classification not	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)–; (Skin sensitization)–	Respiratory sensitization: Although it had the respiratory sensitizing property as cobalt or cobalt compound in the Japanese Society for Occupational Allergy (2004), Jpan Society for Occupational Health advice (2004), and MAK/BAT (2004), there was no data about this product, therefore we could not classify it for the insufficiency of the data. Skin sensitization: Although it had the cutaneous sensitizing property as cobalt or cobalt compound in the Japanese Society for Occupational Allergy (2004), Jpan Society for Occupational Health advice (2004), and MAK/BAT (2004), there was no data about this product, therefore we could not classify it for the insufficiency of the data.
5	Germ cell mutagenicity	Classification not possible	-	-	_	Without data. (It has classified with 3A as inorganic cobalt compound in MAK/BAT (2004). Germ-cell mutagenicity is suspected.)

		Category 2	Health hazard	Warning		It was considered as Category 2 from the classification (respectively Group 2B, A3, 2B) as a cobalt compounds of IARC52 (1991), ACGIH-TLV (2004), and industrial hygene academic recommendation (2004).
7	Toxic to reproduction	Classification not possible	-	-	-	No data available
8	Specific target organs/systemic toxicity following single exposure	Classification not possible	-	-	-	No data available.
		Category 1 (respiratory organs, cardiovascular system)	Health hazard	Danger	cardiovascular	Although there is no data about this product, in ACGIH-TLV (2004; Priority 1 document), it is supposed that it has effect on the respiratory systems (asthma, lungs) and the cardiovascular system in repeated exposure of inorganic cobalt compounds. Therefore we classified it into Category 1 (the respiratory systems, cardiovascular systems).
10		Classification not possible	-	-	-	No data available

Environmental Hazards

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H	azard class	Classification	symbol	signal word	hazard statement	Rational for the classification	
	11 Hazardous to the aquatic environment (acute)	Classification not possible	-	-	-	No data available	
	11 Hazardous to the aquatic environment (chronic)	Classification not possible	-	ı	-	No data available.	