GHS Classification

ID108

Chromium

CAS 7440-47-3 Physical Hazards

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

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

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Explosives	Not applicable	-	-	-	There are no chemical groups associated with explosive properties present in the molecules.
2 Flammable gases	Not applicable	-	-	-	Solid (GHS definition)
3 Flammable aerosols	Not applicable	-	ı	_	Not aerosol products
4 Oxidizing gases	Not applicable	1	ı	_	Solid (GHS definition)
5 Gases under pressure	Not applicable	1	1	_	Solid (GHS definition)
6 Flammable liquids	Not applicable	1	ı	_	Solid (GHS definition)
7 Flammable solids	Not classified	1	1	_	Non-flammable (IUCLID (2000))
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	-	-	-	Solid (GHS definition)
10 Pyrophoric solids	Not classified	-	-	-	Non-flammable (IUCLID, 2000) and Flash point: 580 degC for fine dust (cloud), 400 degC for fine dust (layer) (IUCLID, 2000)
11 Self-heating substances and mixtures	Not classified	-	-	-	Non-flammable (IUCLID, 2000)
12 Substances and mixtures, which in contact with water, emit flammable gases	Classification not possible	-	i	-	No data available
13 Oxidizing liquids	Not applicable	1	1	_	Solid (GHS definition)
14 Oxidizing solids	Not applicable	1	ı	_	Containing no oxygen , chlorine and fluorine.
15 Organic peroxides	Not applicable	-	-	_	Inorganic substance. There are no chemical groups associated with peroxide present in the molecule.
16 Corrosive to metals	Classification not possible	-	-	_	Test methods applicable to solid substances are not available.

Health Hazards

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Classification not possible	-	-	-	No data available
1 Acute toxicity (dermal)	Classification not possible	-	-	-	No data available
1 Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Solid (GHS definition)
Acute toxicity (inhalation: vapour)	Classification not possible	-	-	-	No data available
1 Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	-	No data available
2 Skin corrosion / irritation	Classification not possible	-	-	-	No data available
3 Serious eye damage / eye irritation	Category 2B	-		Causes eye irritation	It was classified into Category 2B based on the statement which powdered might cause irritation (mechanical) (SITTIG (47th, 2002), HSDB (2005), ICSC (2004)).
4 Respiratory/skin sensitization	Respiratory sensitization: Category1; Skin sensitization: Category1	sensitization)Health hazard; (Skin	(Respiratory sensitization)Da nger; (Skin sensitization)W arning	(Respiratory sensitization)May cause allegy or asthma symptoms pr breathing difficulties if inhaled; (Skin sensitization)May cause allergic skin reaction	

		Category 2	Health hazard	Warning	conclusively proven that no other routes of exposure cause the hazard)	The substance was classified as Category 2 based on the positive result of the in vivo mutagenicity test using somatic cells (the chromosome aberration test using rat peripheral blood lymphocytes) (IARC 49 (1999)).
6	Carcinogenicity	Not classified	-	-	_	Based on being classified into a group 3 according to IARC (1999), and being classified into A4 according to ACGHIH (1994), it was classified as out of Category.
7	Toxic to reproduction	Classification not possible	-	-		No data available
8	Specific target organs/systemic toxicity following single exposure	Category 2 (systemic toxicity); Category 3	Health hazard; Exclamation mark	Warning	or may cause	The substance was classified as Category 2 (systemic toxicity). Based on the statement that it may cause metal fume fever (SITTIG (47th, 2002), HSFS (2000)). The substance was classified as Category 3 (airway irritant). Based on the report of airway irritation in humans (HSDB (2005)).
9	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	-		Insufficient data available
10	Aspiration hazard	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	-	-	-	Insufficient data available.	
	11 Hazardous to the aquatic environment (chronic)	Classification not possible	-	ı	ı	Classification not possible due to lack of data	