GHS Classification

ID1313

lead metaborate

CAS 14720-53-7

Date Classified: Mar. 15, 2007 (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	-	1	_	Not aerosol products
4 Oxidizing gases	Not applicable	-	ı	_	Solid (GHS definition)
5 Gases under pressure	Not applicable	-	-	_	Solid (GHS definition)
6 Flammable liquids	Not applicable	-	-	_	Solid (GHS definition)
7 Flammable solids	Not classified	-	-	_	Not classified because it is considered as non-combustible substances structurally
8 Self-reactive substances and mixtures	Not applicable	-	-	-	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	_	ı	_	Not classified because it is considered as Non-combustible substances structurally
11 Self-heating substances and mixtures	Not classified	-	1	-	Not classified because it is considered as non-combustible substances structurally
12 Substances and mixtures, which in contact with water, emit flammable gases	Not classified	-	1	-	Stable to water (the water solubility is obtained)
13 Oxidizing liquids	Not applicable	-	-	-	Solid (GHS definition)
14 Oxidizing solids	Classification not possible	-	1	-	No data available
15 Organic peroxides	Not applicable	-	-	-	Inorganic compound
16 Corrosive to metals	Classification not	_	-	-	Test methods applicable to solid substances are not available.

Health Hazards

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
		Syllibol	Signal Word	Hazaru 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	Classification not possible	-	_	-	No data available
4 Respiratory/skin sensitization	sensitization: Classification not possible; Skin sensitization: Classification not	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	No data available
5 Germ cell mutagenicity	Classification not possible	-	-		No data. In addition, in ATSDR (draft, 2005), there is the description that lead induces chromosome aberration to humans, and the inorganic lead compound is classified into the germ cell mutagenicities 3A (equivalent to GHS Category 1B-2) according to MAK/BAT (2005).

6	Carcinogenicity	Category 1B	Health hazard	Danger	exposure if it is conclusively proven	There is no data of this product. But as a lead compound, it is equivalent to Category1B (inorganic lead compounds, Group 2A) in IARC87 (2004), equivalent to Category1B-2 (Reasonably anticipated to be human carcinogens) in NTPRoC (11th, 2005), and equivalent to Category 2 (respectively B-2, A3, 2B) in IRIS (1993), ACGIH-TLV (2005), and Occupational Health Society advice (2005). Therefore, it was set as Category 1B according to Group 2A of IARC87 (2004).
7	Toxic to reproduction	Category 1A	Health hazard			Although there was no data on this substance, ACGIH-TLV (2005) and ATSDR (draft, 2005) of Priority 1 document, etc. state that lead (inorganic lead compound) indicates reproductive toxicity in humans. Thus, it was set as Category 1A.
8	Specific target organs/systemic toxicity following single exposure		Health hazard	Danger	nervous system,	Although there is no data about this product, since there is description that "almost the same symptom in acute effects and chronic effects are is observed" as human impact of inorganic lead compound in CERI Hazard Data 2001–9 (2001) of Priority 1 document, and in ACGIH-TLV (2005), inorganic lead compound has effect on the central nervous systems, blood, renal, it was cosidered as Category 1 (a central nervous system, blood, kidney).
9	Specific target organs/systemic toxicity following repeated exposure	Category 1 (central nervous system, blood, kidneys)	Health hazard		organs (central nervous system, blood, kidneys)	Although there was no data of this product, since inorganic lead compounds had effects on central nervous systems, blood, and renal (ACGIH-TLV (2005) of Priority 1 document), it was classified into Category 1 (a central nervous system, blood, kidney).
10	Aspiration hazard	Classification not possible	-	-	-	No data available

Environmental Hazards

Ha	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		
_	* * !	Classification not possible	-	ı	_	No data available.		