

GHS Classification

ID1320

Lead phosphite dibasic

CAS 1344-40-7

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	-	-	-	Not aerosol products
4 Oxidizing gases	Not applicable	-	-	-	Solid (GHS definition)
5 Gases under pressure	Not applicable	-	-	-	Solid (GHS definition)
6 Flammable liquids	Not applicable	-	-	-	Solid (GHS definition)
7 Flammable solids	Category 1	Flame	Danger	Flammable solid	UNRTDG is classified into 4.1, II, or III according to the UNRTDG No. (2989). In consideration of safety, it was classified as Category 1 adopting 4.1 and II.
8 Self-reactive substances and mixtures	Not classified	-	-	-	Although it was phosphorous acid salts including the grouping relevant to autoreactive(P-O), the U.N. number (2989) peculiar to a substance did not correspond to type A-G of a autoreactive chemistry article. So it carried out the outside of Category.
9 Pyrophoric liquids	Not applicable	-	-	-	Solid (GHS definition)
10 Pyrophoric solids	Not classified	-	-	-	Not classified because of UNRTDG No. 2989, Class: 4.1, II or III (not Class: 4.2)
11 Self-heating substances and mixtures	Not classified	-	-	-	UNRTDG is classified into 4.1, II, or III according to the U.N. number (2989) peculiar to a substance. Since 4.2 was not attached, it carried out the outside of Category.
12 Substances and mixtures, which in contact with water, emit flammable gases	Not classified	-	-	-	Stable to water (insoluble in water)
13 Oxidizing liquids	Not applicable	-	-	-	Solid (GHS definition)
14 Oxidizing solids	Not classified	-	-	-	UNRTDG No. 2989, Class: 4.1; PG III or III (Not 5.1).
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

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Not classified	-	-	-	Not classified because of SPECIES: Rat; ENDPOINT: LD50; VALUE: >6000mg/kg; REFERENCE SOURCE: RTECS (2004)
1 Acute toxicity (dermal)	Classification not possible	-	-	-	No data available
1 Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Solid (GHS definition)
1 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	respiratory sensitization: Classification not possible; Skin sensitization: Classification not possible	(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	May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	There is no data of this product. But as a lead compound, it is equivalent to Category 1B (inorganic lead compounds, Group 2A) in IARC87 (2004), equivalent to Category 1B-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	Danger	May damage fertility or the unborn child	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	Category 1 (central nervous system, blood system, kidneys)	Health hazard	Danger	Cause damage to organs (central nervous system, blood system, kidneys)	Although there is no data about this product, since there is description that "almost the same symptom in acute effects and chronic effects are observed" as human impact of inorganic lead compound in CERH 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, and renal, it was considered 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	Danger	Causes damage to organs (central nervous system, blood, kidneys) through prolonged or repeated	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

Hazard 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	-	-	-	No data available.