GHS Classification

ID1003

Phosphoric acid

CAS 7664-38-2 Physical Hazards Date Classified: Jul. 24, 2006 (Environmental Hazards: Mar. 31, 2006)

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

Haza	ard 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)
	Flammable aerosols	Not applicable	-	-	ı	Not aerosol products
4	Oxidizing gases	Not applicable	-	-	ı	Solid (GHS definition)
	Gases under pressure	Not applicable	-	-	-	Solid (GHS definition)
6	Flammable liquids	Not applicable	-	-	ı	Solid (GHS definition)
7	Flammable solids	Not classified	-	-	ı	Non-combustible (ICSC (J), 2000; etc.)
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	Non-combustible (ICSC (J), 2000; etc.)
11	Self-heating substances and mixtures	Not classified	-	-	İ	Non-combustible (ICSC (J), 2000; etc.)
12	Substances and mixtures, which in contact with water, emit flammable gases	Not classified	-	-	-	UNRTDG Class: 8
13	Oxidizing liquids	Not applicable	-	-	-	Solid (GHS definition)
	Oxidizing solids	Not classified	-	-	-	UNRTDG Class: 8
15	Organic peroxides	Not applicable	-	-	-	Containing no -0-0- structure
16	Corrosive to metals	Classification not possible	-	-		Although it is classified into the class 8 in UNRTDG, identification with skin corrosivity cannot be performed. Moreover, although there is information that it corrodes many metals (ICSC (J) (2000)), there is no data based on set test methods.

Health Hazards

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Category 4	Exclamation mark	Warning	Harmful if swallowed	Category 4 based on SPECIES: Rat; ENDPOINT: LD50; VALUE: :1530mg/kg; REFERENCE SOURCE: RTECS (2006, IUCLID, 2000, HSDB, 2006), 1250mg/kg; REFERENCE SOURCE: RTECS (2006)
1 Acute toxicity (dermal)	Category 5	-	Warning	May be harmful in contact with skin	It was set as Category 5 based on rabbit LD50 value: 2740mg/kg (RTECS2006, IUCLID2000, HSDB2006).
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	-	-	-	There was data that rat LC50 (1 hour) value was >0.85mg/L (4-hour equivalent >0.21mg/L) (RTECS (2006)). But the category could not be specified only by this data. Therefore, it cannot be classified since data is insufficient.
2 Skin corrosion / irritation	Category 1A-1C	Corrosion	Danger	Causes severe skin burns and eye damage	Although it was the effects of exposure for 24 hours, there are description that caustic was admitted in the test which applied 75-85% aqueous solutions to the rabbit skin (IUCLID (2000)), and pH of 0.1N aqueous solutions was strong acids of 1.5. So it was set as Category 1A-1C.
3 Serious eye damage / eye irritation	Category 1	Corrosion	Danger	Causes serious eye damage	Since it had skin corrosiveness, it was categorized as Category 1.
	sensitization: Classification not possible; Skin sensitization: Classification not	-	-	-	No data available
5 Germ cell mutagenicity	Classification not possible	-	-	-	No data available
6 Carcinogenicity	Classification not possible	_	-	_	No data available
7 Toxic to reproduction	Classification not possible	-	-	-	Classification not possible due to lack of data

		Category 3 (respiratory tract irritation)	Exclamation mark	Warning		The substance was classified as Category 3 (airway irritant) because it is reported in ACGIH (7th, 2001) and Japan Society for Occupational Health Recommendations (1993) that the mist is an irritant to upper airways.
	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	-	-	No data available
10	·	Classification not possible	-	-	-	No data available

Environmental Hazards

Hazard class		Classification	symbol	signal word	hazard statement	Rational for the classification			
		Classification not possible	-	-	-	Insufficient data available.			
•		Classification not possible	-	-	-	Classification not possible due to lack of data			