## **GHS Classification**

ID628

phosphine

CAS 7803-51-2

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

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

Haz	zard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	1 Explosives	Not applicable	-	-		Gas (GHS definition)
2	2 Flammable gases	Category 1	-	Danger	Extremely flammable gas	Ignitable when in a mixture of 13% or less by volume in air. UNRTDG Subsidiary risks Class: 2.1
3	3 Flammable aerosols	Not applicable	-	-	-	Not aerosol products
4	4 Oxidizing gases	Not classified	-	-	-	UNRTDG Class: 2.2, Subsidiary risks Class: 2.1
5	5 Gases under pressure	Compressed gas or Liquefied gas	Gas cylinder	Warning	pressure; may	According to its physical state when packed, classified in; Compressed gas: entirely gaseous at -50degC or, Liquefied gas: partially liquid at temperatures above -50degC (a critical temp. >-50degC)
6	6 Flammable liquids	Not applicable	-	-	-	Gas (GHS definition)
7	7 Flammable solids	Not applicable	-	-	-	Gas (GHS definition)
8	Self-reactive substances and mixtures	Not applicable	-	-	-	Gas (GHS definition)
ç	9 Pyrophoric liquids	Not applicable	-	-	-	Gas (GHS definition)
10	Pyrophoric solids	Not applicable	-	-	-	Gas (GHS definition)
11	1 Self-heating substances and mixtures	Not applicable	-	-	-	Gas (GHS definition)
12	2 Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	-	-	-	Gas (GHS definition)
13	3 Oxidizing liquids	Not applicable	-	-	-	Gas (GHS definition)
14	4 Oxidizing solids	Not applicable	-	-	_	Gas (GHS definition)
	Organic peroxides	Not applicable	-	-	-	Gas (GHS definition)
16	Corrosive to metals	Not classified	_	-	_	UNRTDG Class: 2.3 Subsidiary risks Class: 2.1

## **Health Hazards**

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Not applicable	-	-	-	Gas (GHS definition)
1 Acute toxicity (dermal)	Not applicable	-	-	_	Gas (GHS definition)
1 Acute toxicity (inhalation: gas)	Category 1	crossbones	Danger	Falat if inhaled	It was considered as Category 1 based on rat LC50 (4 hours) level: 11ppm (EHC 73, 1988, ACGIH 7th, 2001, industrial hygene academic society recommentation, 1998).
1 Acute toxicity (inhalation:	Not applicable	-	-	_	Gas (GHS definition)
Acute toxicity (inhalation: dust, mist)	Not applicable	-	-	-	Gas (GHS definition)
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	-	-	-	No data available
5 Germ cell mutagenicity	Not classified	-	-	-	We found the negative results (IRIS and 2006, Japan Society for Occupational Health Recommendation of Occupational Exposure Limits, 1998) by the dominant lethality tests using the mouse, which were in vivo over generation mutagenicity tests using the germ cells, and found the negative results (NTP DB, 2006, Japan Society for Occupational Health Recommendation of Occupational Exposure Limits, 1998) by the micronucleus tests which used the rat or the mouse marrow cells and peripheral blood, which were the in vivo mutagenicity tests using the somatic cells. Therefore we classified it as Out Of Category.
6 Carcinogenicity	Not classified	-	-	-	Since it was classified into D according to EPA in 1996 (IRIS, 2006), it carried out the outside of Category.
7 Toxic to reproduction	Not classified	-	-	-	considered to be the highest dosage in which a repeated administration is possible without mortality in a maternal animals in an inhalation atmospheric exposure test to the pregnancy rat (IRIS (2006)), it was considered as on the outside of

		Category 1 (nervous system, respiratory, liver, gastrointestinal tract, cardiovascular system)	Health hazard	Danger	organs (nervous system, respiratory,	exposure (EHIC 73 (1986) and INIX(2000)), and that pulmonary edema, Jundice, nepatomegaly, abnormal sensation, shipering localized myocardial perposis nausea yomiting and diarrhea were identified in the human avidence of exposure
	Specific target organs/systemic toxicity following repeated exposure	Not classified	-	-		Based on the description that the serious toxic effect by the highest dosage within a repeatedable doses was not acknowledged and no acknowledgement of death in the inhalation exposure test using a rat, a mouse or a guinea pig of EHC 73 (1988), IRIS (2006) and industrial hygiene academic society advice (1998), and the discription that in ocupational evidence of exposure, symptom was acknowledged for every exposure, but there is no a chronic effects in ACGIH (7th, 2001) and industrial hygiene academic society advice (1998), so it was classified to as the outside of Category.
10	Aspiration hazard	Not applicable	_	_	_	Gas (GHS definition)

## **Environmental Hazards**

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Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification		
	Classification not possible	-	-	-	No data available		
	Classification not possible	-	-	-	No data available.		