GHS Classification

ID48 CAS 1317-36-8 Physical Hazards Lead monoxide; Litharge Date Classified: Mar. 23, 2006

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

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Explosives	Not applicable	-	-	-	Containing no chemical groups with explosive properties
2 Flammable gases	Not applicable	-	-	-	Classified as "solid" according to GHS definition
3 Flammable aerosols	Not applicable	-	-	-	Not aerosol products
4 Oxidizing gases	Not applicable	1	-	-	Classified as "solid" according to GHS definition
5 Gases under pressure	Not applicable	1	-	-	Classified as "solid" according to GHS definition
6 Flammable liquids	Not applicable	1	-	-	Classified as "solid" according to GHS definition
7 Flammable solids	Not classified	-	-	-	Non-flammable (ICSC, 2002)
8 Self-reactive substances and mixtures	Not applicable	-	-	-	Containing no chemical groups with explosive or self-reactive properties
9 Pyrophoric liquids	Not applicable	1	-	-	Classified as "solid" according to GHS definition
10 Pyrophoric solids	Not classified	1	-	-	Non-combustible (ICSC, 2002)
11 Self-heating substances and mixtures	Not classified	-	-	-	Non-combustible (ICSC, 2002)
12 Substances and mixtures, which in contact with water, emit flammable gases	Not classified	1	-	-	Stable to water; insoluble (ICSC, 2002)
13 Oxidizing liquids	Not applicable	-	-	-	Classified as "solid" according to GHS definition
14 Oxidizing solids	Classification not possible	-	-	-	Classification not possible due to the absence of data, though being inorganic compounds containing oxygen.
15 Organic peroxides	Not applicable	1	-	-	Not organic compounds
16 Corrosive to metals	Classification not possible	-	-	-	Test methods applicable to solid substances are not available

Health Hazards

Haz	ard 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	-	-	-	Due to the fact that the substance is "solid" according to the GHS definition and inhalation of its gas is not expected.
1	Acute toxicity (inhalation:	Classification not possible	-	-	-	No data available
1	Acute toxicity (inhalation: dust, mist)	Classification not possible	-	1	-	No data available
2	Skin corrosion / irritation	Category 3	-	Warning	Causes mild skin	Based on the description in the report on rabbit skin irritation tests (CERI Hazard Data 2001-9 (2002)) "mild irritation". Refer to other data on lead
_					irritation	and its compounds (primarily inorganic lead)
3	Serious eye damage / eye irritation	Classification not possible	-	-		No data available Refer to other data on lead and its compounds (primarily inorganic lead)
4	Respiratory/skin sensitization	Respiratory sensitization: Classification not possible Skin sensitization: Classification not possible	-	ı		Respiratory sensitization: No data available Refer to other data on lead and its compounds (primarily inorganic lead) Skin sensitization: No data available Refer to other data on lead and its compounds (primarily inorganic lead)
5	Germ cell mutagenicity	Category 2	Health hazard	Warning	genetic defects	Based on many reports on the occupational exposure to lead compounds and the results of epidemiological studies: lead compounds induce chromosome aberration and micronucleated cells in human peripheral blood cells (SCE formation is also observed). Although no data are available on the evaluation of lead oxides per se, the results of epidemiological studies should be taken into account in view of their human germ cell mutagenicity. However, classification may not be possible, if based on the description in IARC 23 (1980): data on multi-generation mutagenicity tests, germ/somatic cell mutagenicity tests in vivo and germ/somatic cell genotoxicity tests in vivo are not available, and in vitro mutagenicity tests do not show strong positive results (in several indexes).
6	Carcinogenicity	Category 2	Health hazard	Warning		Based on the classification by NTP (2005) (R: Lead and Lead Compounds), IARC (1987) (Group 2B: Lead and Inorganic Lead Compounds) and the Japan Society of Occupational Health (2B: Lead Compounds (Inorganic).
7	Toxic to reproduction	Category 1A	Health hazard	Danger	Suspected of damaging fertility or the unborn child	Based on the description in IARC 23 (1980): The results of epidemiological studies conducted at lead smelters suggest a significant increase in spontaneous abortion rates. (Workers in lead smelters may be exposed to lead fume, which is probably lead monoxide.)
8	Specific target organs/systemic toxicity following single exposure	Classification not possible	-	1	-	No data available
C)	Specific target organs/systemic toxicity following repeated exposure	Category 2 (blood system, nervous system, kidneys)	Health hazard	Warning		Based on human evidence including "the substance induces eye/skin/respiratory irritation and induces chemical bronchitis, pneumonia and pulmonary edema through inhalation of vapor" (ICSC (J) (2002)).
10	Aspiration hazard	Classification not possible	-	-		No data available

Environmental Hazards

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Н	azard class	Classification	symbol	signal word	hazard statement	Rational for the classification	
	11 Hazardous to the aquatic environment (acute)	Classification not possible	-	-	-	Classification not possible due to lack of data	
	11 Hazardous to the aquatic environment (chronic)	Category 4	-	-		Since although acute toxicity is not reported within the aqueous solubility concentrations, it was a metallic compound, and the underwater action was unknown, it was classified into Category 4.	