GHS Classification

ID950

Benz[a]anthracene

CAS 56-55-3 Physical Hazards

Date Classified: Jun. 20, 2006 (Environmental Hazards: Mar. 31, 2006)

ysical 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	-	1	-	Solid (GHS definition)
6 Flammable liquids	Not applicable	-	-	-	Solid (GHS definition)
7 Flammable solids	Classification not possible	-	ı	-	No data available by regulated examination methods, though "Flammable" (ICSC (J) (1995))
8 Self-reactive substances and mixtures	Not applicable	_	1	-	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	Classification not possible	-	-	-	No data available
	Classification not possible	-	-	-	No data available
12 Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	-	-	-	The chemical structure of the substance does not contain metals or metaloids(B, Si, P, Ge, As, Se, Sn, Sb, Te, Bi, Po, At).
13 Oxidizing liquids	Not applicable	-	1	-	Solid (GHS definition)
14 Oxidizing solids	Not applicable	-	ı	-	Containing no oxygen , chlorine and fluorine.
15 Organic peroxides	Not applicable	-	1	-	Containing no -0-0- structure
16 Corrosive to metals	Classification not possible	-	-	-	Liquid at a test temperature, 55degC. 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)	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)
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	sensitization: Classification not possible; Skin sensitization: Classification not	-	-	-	No data available
5 Germ cell mutagenicity	Category 2	Health hazard	Warning	of exposure if it is conclusively proven	There is the positive results by the chromosomal aberration test using a hamster marrow cell which are the in vivo mutagenicity test using a somatic cell, the micronucleus test using erythrocyte (EHC 202, 1998, IARC 32, 1983), and micronucleus test using rat erythrocyte (EHC 202, 1998). But there is no result positive by the in vivo heredity toxicity examination using a germ cell. So it is set as Category 2.

6	Carcinogenicity	Category 1B	Health hazard	Danger	conclusively proven	It was classified into classified into B2 in EPA in 1994. But it was classified into group 2A (IARC Suppl.7, 1987) in IARC, A2 (ACGIH 7th, 2001) in ACGIH, R (NTP RoC 11th, 2005) in NTP and the category 2 (EU-Annex I, 2005) in EU. So it was considered as Category 1B according to ACGIH which is recent report.
7	1	Classification not possible	-	=	-	Classification not possible due to lack of data
8	Specific target organs/systemic toxicity following single exposure		-	-	-	No data available.
9	toxicity following repeated	Classification not possible	-	-	-	No data available
10	Aspiration hazard	Classification not possible	-	-	-	No data available

Environmental Hazards

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H	azard class	Classification	symbol	signal word	hazard statement	Rational for the classification		
	11 Hazardous to the aquatic environment (acute)	Classification not possible	-	-	-	Insufficient data available.		
	11 Hazardous to the aquatic environment (chronic)	Classification not possible	-	-	_	Classification not possible due to lack of data		