## **GHS Classification**

ID953

## benz(e)acephenanthrylene

CAS 205-99-2 Physical Hazards

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

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

Haz	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)
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	Classification not possible	-	-	-	No data available
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	Classification not possible	-	-	-	No data available
11	Self-heating substances and mixtures	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).
	Oxidizing liquids	Not applicable	-	-	_	Solid (GHS definition)
14	Oxidizing solids	Not applicable	-	-	_	Containing no oxygen , chlorine and fluorine.
15	Organic peroxides	Not applicable	-	-	_	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	-	1	-	No data available
1 Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Solid (GHS definition)
1 Acute toxicity (inhalation: vapour)	Classification not possible	-	1	-	No data available
1 Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	-	No data available
2 Skin corrosion / irritation	Classification not possible	-	-	-	Classification not possible due to lack of data
3 Serious eye damage / eye irritation	Classification not possible	-	-	-	Insufficient data available.
4 Respiratory/skin sensitization	sensitization: Classification not possible; Skin sensitization: Classification not	-	-	-	Respiratory organ: No data. Skin: Since data was insufficient, we could not classify it.
5 Germ cell mutagenicity	Not classified	-	-	-	There was a negative result (EHC 202, 1998; IARC 32, 1983) by the chromosome aberration test using the hamster marrow cells, which are the in vivo mutagenicity tests using a somatic. So it carried out the outside of Category.

6	Carcinogenicity	Category 1B	Health hazard	Danger	conclusively proven	It was classified into group 2B (IARC Suppl.7, 1987) in IARC, and B-2 (IRIS, 2005) in EPA in 1994. But it was classified into R (NTP RoC 11th, 2005) in NTP, category 2 (EU-Annex I, 2005) in EU, and A2 (ACGIH 7th, 2001) in ACGIH. So it was coansidered as Category 1B according to ACGIH which is recent report.
7		Classification not possible	-	-	-	No data available
8	Specific target organs/systemic toxicity following single exposure		-	-	-	Insufficient data available.
g	toxicity following repeated	Classification not possible	-	-	-	No data available
10		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	
Ī	11 Hazardous to the aquatic environment (acute)	Classification not possible	-	-	-	Insufficient data available.	
	11 Hazardous to the aquatic environment (chronic)	Category 4	-	_		Classified into Category 4, supposed not rapidly degrading (BIOWIN), and bioaccumulative (log Kow=5.78 (PHYSPROP Database, 2005)), though no acute toxicity is reported within the saturated aqueous solution.	