## **GHS Classification**

ID1408

Hexabromo-1,1'-biphenyl
Date Classified: Oct. 23, 2006 (Environmental Hazards: Mar. 31, 2006)

CAS 36355-01-8 Physical 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	_	_	-	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	-	_	-	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	-	-	_	Classified into Class 9 (UN#3152 Polyhalogenated Biphenyls (solid), or Polyhalogenated Terphenyls (solid)) (UN Recommendation on the Transport of Dangerous Goods).
8 Self-reactive substances and mixtures	Not applicable	_	_	_	Containing no chemical groups with explosive or self-reactive properties
9 Pyrophoric liquids	Not applicable	-	_	-	Classified as "solid" according to GHS definition
10 Pyrophoric solids	Not classified	1	-		Considered non-pyrophoric when in contact with air at ordinary temperatures since the substance is used as a flame retardant (EHC152 (1994)). Classified into Class 9 (UN#3152 Polyhalogenated Biphenyls (solid), or Polyhalogenated Terphenyls (solid)) (UN Recommendation on the Transport of Dangerous Goods).
11 Self-heating substances and mixtures	Not classified	_	-		Classified into Class 9 (UN#3152 Polyhalogenated Biphenyls (solid), or Polyhalogenated Terphenyls (solid)) (UN Recommendation on the Transport of Dangerous Goods).
12 Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	-	_	ı	Containing no metals or metalloids (B, Si, P, Ge, As, Se, Sn, Sb, Te, Bi, Po, At)
13 Oxidizing liquids	Not applicable	-	_	-	Classified as "solid" according to GHS definition
14 Oxidizing solids	Not applicable	_	-	-	Organic compounds containing no oxygen, fluorine or chlorine
15 Organic peroxides	Not applicable	_	-	-	Organic compounds containing no "-0-0-" structure
16 Corrosive to metals	Classification not possible	_	-	_	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)	Not classified	-	-	-	Based on the rat LD50 (oral route) value of 21,500mg/kg (RTECS (2005)).
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 a 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	-	-	_	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	Respiratory sensitization: Classification not possible Skin sensitization: Classification not possible	(Respiratory sensitization) — (Skin sensitization) —	(Respiratory sensitization) — (Skin sensitization) —	(Respiratory sensitization)— (Skin sensitization)—	Respiratory sensitization: No data available Skin sensitization: No data available
5 Germ cell mutagenicity	Classification not possible	_	-	_	Based on the absence of data on in vivo studies and no positive data on in vitro mutagenicity tests (several indices), described in NTP DB (Access on June 2006), EHC 152 (1994) and IARC 41 (1986).
6 Carcinogenicity	Category 2	Health hazard	Warning	Suspected of causing cancer	Due to the fact that the substance is classified as Category R (Polybrominated Biphenyls) by NTP (2005), Category 2B (Polybrominated biphenyls) by IARC (1987) and Category 2B (Polybrominated Biphenyls) by the Japan Society for Occupational Health (2005).
7 Toxic to reproduction	Category 2	Health hazard	Warning	Suspected of damaging fertility or the unborn child	Based on the evidence of reduced female fertility and malformation (cleft palate) in the offspring observed in mouse teratogenicity studies, described in EHC 152 (1994) (though no data are available regarding parental toxicity).
8 Specific target organs/systemic toxicity following single exposure	Classification not possible	-	-	_	Insufficient data available

	Specific target organs/systemic		_	-	-	Insufficient data available
	toxicity following repeated	Classification not possible				
	exposure					
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	-	-	-	Classification not possible due to lack of data		
	11 Hazardous to the aquatic environment (chronic)	Classification not possible	-	-	-	Classification not possible due to lack of data		