GHS Classification

ID1409

Tetrabromo(tetrabromophenyl)benzene Date Classified: Oct. 23, 2006 (Environmental Hazards: Mar. 31, 2006)

CAS 27858-07-7 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	_	-	_	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	_	-	_	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).
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	_	-		Considered non-pyrophoric when in contact with air at ordinary temperatures since the substance is used as a flame retardant (EHC 152 (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	_	-	_	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

Haz	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	Acute toxicity (oral)	Category 4	Exclamation mark	Warning	Harmful if swallowed	Based on the rat LD50 (oral route) value of 2,000mg/kg (EHC 152 (1994)).
1	Acute toxicity (dermal)	Not classified	-	-	-	Based on the rabbit LD50 (dermal route) value of >10,000mg/kg (EHC 152 (1994)).
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	_	_	_	Classification not possible because the available rat LC50 (inhalation of dust) value of >0.96mg/L (IARC 41 (1987)) is that of the technical mixture and not a fixed value.
2	Skin corrosion / irritation	Category 2	Exclamation mark	Warning	Causes skin irritation	Based on the description in the report on dermal studies in rabbits (EHC 152 (1994)): The technical mixtures tested "induced moderate erythematous and slight edematous response."
3	Serious eye damage / eye irritation	Category 2B	_	Warning	Causes eye irritation	Based on the description in the report on rabbit eye irritation tests (EHC 152 (1994)): The technical mixtures tested "produced corneal effects, conjunctival redness and swelling, and a copious discharge. The reactions disappeared within 4 hours."
4	Respiratory/skin sensitization	Respiratory sensitization: Classification not possible Skin sensitization: Not classified	(Respiratory sensitization) — (Skin sensitization) —	(Respiratory sensitization) — (Skin sensitization) —	(Respiratory sensitization)— (Skin sensitization)—	Respiratory sensitization: No data available Skin sensitization: Based on two sets of data from guinea pig skin sensitization studies showing no sensitization potential (EHC 152 (1994)). The technical mixtures are thus unlikely to produce weaker responses.
5	Germ cell mutagenicity	Classification not possible	_	_	-	No data available
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 abdominal wall dehiscences and skeletal anomalies in the offspring observed in rat teratogenicity studies, described in PATTY (4th, 2000) and 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	-	-	-	No data available		
	11 Hazardous to the aquatic environment (chronic)	Classification not possible	-	-	-	No data available		