## **GHS Classification**

ID447

## 2,4,6-Tribromophenol

CAS 118-79-6 Physical Hazards

Date Classified: Aug. 22, 2006 (Environmental Hazards: Mar. 31, 2006)

nysical Hazards	Reference Manual:	GHS Classification Manua	l (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	-	_	-	Non-flammable (ICSC, 2004)
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	-	_	-	Non-flammable (ICSC, 2004)
11 Self-heating substances and mixtures	Not classified	_	_	_	Non-flammable (ICSC, 2004)
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 oxygen (but not fluorine and chlorine), with the oxygen bound to carbon and hydrogen (but not to other elements)
15 Organic peroxides	Not applicable	-	_	-	Organic compounds containing no "-O-O-" 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 LD50 value of 1,092mg/kg calculated from the testing data of rat LD50 (oral route) of 2,000mg/kg (CERI Hazard Data 2001–53 (2002)), 1,486mg/kg , 1,995mg/kg , 1,819mg/kg , 5,012mg/kg (CICAD 66 (2005)) and 200mg/kg, 1,486mg/kg (MOE Risk Assessment vol. 3 (2004)).
1	Acute toxicity (dermal)	Not classified	ı	ı	_	Based on the rat LD50 (dermal route) value of >2,000mg/kg (CICAD (2005)) and rabbit LD50 (dermal route) of >2,000 and >8,000 (CICAD (2005)).
1	Acute toxicity (inhalation: gas)	Not applicable	-	_	_	Due to the fact that the substance is "solid" according to the GHS definition.
1	Acute toxicity (inhalation:	Classification not possible	ı	ı	_	No data available
1	Acute toxicity (inhalation: dust, mist)	Not classified	-	1	_	Based on the rat LC50 (4 hour inhalation) value of >200mg/L, representing the highest of the three testing data, >1.63mg/L (CERI Hazard Data 2001-53 (2002) and (MOE Risk Assessment vol. 4 (2005)), >50mg/L and >200mg/L (CICAD 66 (2005)).
2	Skin corrosion / irritation	Not classified	1	ı	_	Based on the description in the report on rabbit skin irritation tests (4 hour application) performed in accordance with OECD Test Guideline (CICAD 66 (2005)): "The substance showed no evidence of skin irritation."
3	Serious eye damage / eye irritation	Category 2A	Exclamation mark	Warning	Causes serious eye irritation	Based on the description in the report on eye irritation tests (CERI Hazard Data 2001-53 (2002) and CICAD 66 (2005)): "The substance showed moderate irritation."
4	Respiratory/skin sensitization	Respiratory sensitization: Classification not possible Skin sensitization: Category 1	(Skin sensitization)	(Respiratory sensitization) — (Skin sensitization) Warning	(Respiratory sensitization)— (Skin sensitization) May cause an allergic skin reaction	Respiratory sensitization: No data available Skin sensitization: Based on the evidence of skin sensitization from guinea pig skin sensitization tests, described in CICAD 66 (2005).
5	Germ cell mutagenicity	Not classified	_	_	-	Based on the absence of data on multi-generation mutagenicity tests and germ cell mutagenicity tests in vivo, and negative data on somatic cell mutagenicity tests in vivo (micronucleus tests), described in CICAD 66 (2005), CERI Hazard Data 2001-53 (2002) and NTP DB (Access on April
6	Carcinogenicity	Classification not possible	_	-	-	No data available
7	Toxic to reproduction	Category 2	Health hazard	Warning	Suspected of damaging fertility or the unborn child	Based on the evidence of reduced viability of the offspring in repeated dose toxicity and reproductive toxicity combined studies in rats, described in CICAD 66 (2005), though no data are available on parental toxicity.
8	Specific target organs/systemic toxicity following single exposure		Health hazard	Warning	May cause damage to organs (nervous system)	ranges for Category 2.
9	Specific target organs/systemic toxicity following repeated exposure	Category 2 (liver, kidneys)	Health hazard	Warning	May cause damage to organs through prolonged or repeated exposure (liver, kidneys)	Based on the evidence from animal studies including "tissue degeneration in the liver and kidneys" (MOE Risk Assessment vol. 4 (2005)). The effects on experimental animals were observed at dosing levels within the guidance value ranges for Category 2.
10	Aspiration hazard	Classification not possible	-	-	_	No data available

## **Environmental Hazards**

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H	lazard class	Classification	symbol	signal word	hazard statement	Rational for the classification		
	11 Hazardous to the aquatic environment (acute)	Category 1	Environment	Warning	Very toxic to aquatic life	It was classified into Category 1 from 48 hours EC50=0.22mg/L of the crustacea (Daphnia magna) (ECETOC TR91, 2003).		
	11 Hazardous to the aquatic environment (chronic)	Category 1	Environment			Since the acute toxicity was Category 1 and it had no rapidly degrading (the decomposition by BOD: 49% (Existing Chemicals Safety Check Data)), and it had the bio-accumulation (log Kow=4.13(PHYSPROP Database, 2005)), it was classified into Category 1.		