## **GHS** Classification

ID754

# 4,4'-thiodianiline

CAS 139–65–1 Physical Hazards

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

cal 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	-	-	-	Not aerosol products
4 Oxidizing gases	Not applicable	-	-	1	Solid (GHS definition)
5 Gases under pressure	Not applicable	-	-	1	Solid (GHS definition)
6 Flammable liquids	Not applicable	-	-	1	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).
13 Oxidizing liquids	Not applicable	-	-	-	Solid (GHS definition)
14 Oxidizing solids	Not applicable	-	-	-	Organic Compounds containing no oxygen, chlorine and fluorine.
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 clas	ass	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute to	toxicity (oral)	Category 4	Exclamation mark	Warning	Harmful if swallowed	SPECIES: Rat ENDPOINT: LD50 VALUE: 1100 mg/kg REFERENCE SOURCE: DFGOTvol.4 (1992)
1 Acute to		Classification not possible	-	-	-	No data available
1 Acute to	toxicity (inhalation: gas)	Not applicable	-	-	-	Solid (GHS definition)
1 Acute to vapour)		Classification not possible	-	-	-	No data available
1 Acute to mist)		Classification not possible	-	-	-	No data available
2 Skin cor		Classification not possible	-	-	-	No data available
3 Serious irritation		Classification not possible	-	-	-	No data available
4 Respira		possible; Skin	(Respiratory sensitization)-; (Skin	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)–; (Skin sensitization)–	No data available

5	Germ cell mutagenicity	Category 2	Health hazard	Warning	defects (state route of exposure if it is conclusively proven that no other routes	It gave positive by the DNA damage examination of the mouse (RTECS (2005)), it gave positive in the Ames test (DFGOTvol.4 (1992)), and it gave positive in the chromosomal aberration test and sister chromatid exchange test (NTP DB (2005)), in addition, it is designated by MHLW as the substance for which the mutagenicity was acknowledged. Therefore we classified it as Category 2 according to the technical guideline. [special notes] Although we only have the in vivo information on RTECS, we classified it as Category 2, because we considered that it was better to do so. Please give us expert judgements.
6	Carcinogenicity	Category 2	Health hazard	Warning		It classified into 2. From it being classified into 2B according to IARC, and being classified into 2B in Japan Society for Occupational Health.
7	Toxic to reproduction	Category 2	Health hazard	Warning		It was classified into category 2 according to the description that implantation decreased signifcantly in gastric administration to pregnant rats (DFGOTvol.4 (1992)).
	Specific target organs/systemic toxicity following single exposure	Classification not possible	-	-	-	No data available.
-	toxicity tollowing repeated	Classification not possible	-	-	_	Classification not possible due to lack of data
10		Classification not possible	-	_	_	No data available

## Environmental Hazards

Ha	zard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	and increase and (and the)	Classification not possible	-	-	-	No data available
1	and the second (also a la)	Classification not possible	-	-	-	No data available.