GHS Classification

ID558 CAS 101-61-1

4,4'-Methylenebis(N,N-dimethylaniline)

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

Physical Hazards

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

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Haza	ard 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	Classification not possible	_	-	_	No data available
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	Classification not possible	-	-	_	No data available
11	Self-heating substances and mixtures	Classification not possible	-	-	_	Test methods applicable to liquid substances are not available (melting point: 90-91degC (Merck, 13th, 2001), test temperature: 140degC).
12	Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	-	-	ı	Containing no metalls 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 "-O-O-" 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)	Category 5	_	Warning	May be harmful if swallowed	Based on the rat LD50 (oral route) value of 3,160mg/kg (IARC 27 (1982)).
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 "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	-	_	-	No data are available on in vivo studies. When tested in vitro, the substance was only slightly positive in gene mutation tests (reverse mutation assay and mouse lymphoma assay) and negative in chromosome aberration tests, described in NTP DB (Access on June 2006), IARC 27 (1982) and DFGOT Vol. 1 (1990). Classification is not possible since the results obtained are not sufficient to include the substance in Category 2.
6 Carcinogenicity	Category 2	Health hazard	Warning	Suspected of causing cancer	Due to the fact that the substance is classified as Category R by NTP (2005) and Category B2 by EPA (1990).
7 Toxic to reproduction	Classification not possible	_	_	-	No data available
8 Specific target organs/systemic toxicity following single exposure	Classification not possible	_	_	_	No data available
9 Specific target organs/systemic toxicity following repeated exposure	Classification not possible	_	_	_	Insufficient data available
10 Aspiration hazard	Classification not possible	-	_	-	No data available

Environmental Hazards

Hazard 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