

## GHS Classification

**ID1324**

**CAS 95-70-5**

### Physical Hazards

**1,4-Benzenediamine, 2-methyl-**

Date Classified: Jan. 23, 2007 (Environmental Hazards: Mar. 31, 2006)

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	-	-	-	Solid (GHS definition)
5 Gases under pressure	Not applicable	-	-	-	Solid (GHS definition)
6 Flammable liquids	Not applicable	-	-	-	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	Not classified	-	-	-	It is used as a synthetic raw material for dyes, etc. It was thought that it did not ignite spontaneously even if it contacts the air of normal temperature, and it was defined as "out of Category".
11 Self-heating substances and mixtures	Classification not possible	-	-	-	Test methods applicable to solid (melting point <= 140degC) substances are not 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 metalloids(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, fluorine and 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 3	Exclamation mark	Danger	Toxic if swallowed	Category 3 based on SPECIES: Rat; ENDPOINT: LD50; VALUE: 102 mg/kg; REFERENCE SOURCE: RTECS(2002)
1 Acute toxicity (dermal)	Classification not possible	-	-	-	No data available
1 Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Solid (GHS definition)
1 Acute toxicity (inhalation: vapour)	Classification not possible	-	-	-	No data available
1 Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	-	No data available
2 Skin corrosion / irritation	Category 3	-	Warning	Causes mild skin irritation	It was set as category 3 since the "Mild (it is slight)" irritation was seen (EHC74 (1987), RTECS (2002)) when administered to the skin of rabbits.
3 Serious eye damage / eye irritation	Category 2A-2B	Exclamation mark	Warning	Causes serious eye irritation	It was set as Category 2A-2B from the statement considered to stimulate an eye strongly (PATTY (5th, 2001)). In addition, detailed categorization is difficult.
4 Respiratory/skin sensitization	Respiratory sensitization: Classification not possible; Skin sensitization: Category 1	(Respiratory sensitization)-; (Skin sensitization)Exclamation mark	(Respiratory sensitization)-; (Skin sensitization)Warning	(Respiratory sensitization)-; (Skin sensitization)May cause allergic skin reaction	Respiratory sensitization: no data available. Skin sensitization: in the experiment using a guinea pig, there is description that there was skin sensitization by this product (EHC74(1987), HSDB(2002)), it was referred to as Category 1. In addition, it is classified into "Sh" (the danger of skin sensitization, MAK/BAT (2005)) in German MAK Liszt.
5 Germ cell mutagenicity	Not classified	-	-	-	According to the technical guidelines, it is considered as the outside of Category because there is a negative result by the dominant fatality test (EHC74 (1987), HSDB (2002)) and in vivo micronucleus test (EHC74 (1987)) using a rat. In addition, in the Ames test, it is considered as the positive (EHC74 (1987), PATTY (5th, 2001), RTECS (2002), HSDB (2002)).
6 Carcinogenicity	Not classified	-	-	-	Since it was classified into "3 (it cannot classify about the carcinogenic to humans)" in IARC, it carried out the outside of Category.

7	Toxic to reproduction	Category 2	Health hazard	Warning	Suspected of damaging fertility or the unborn child	While effects such as face and head deformity, exencephaly, facial cleft were observed at the dose with no toxic effects on parent animals when this substance was administered to female mice subcutaneously or interperitoneally (EHC74 (1987)), and Catalog of Teratogenic Agents (11th, 2004). And negative results have been reported in the tests including oral administration using rats, mice and rabbit (EHC74 (1987), and Catalog of Teratogenic Agents (11th, 2004)). Since it was judged to have the effect on generation as one of the properties of this substance, it was set as Category 2. In addition, no data is found on reproductive potential.
8	Specific target organs/systemic toxicity following single exposure	Category 1 (liver, blood system)	Health hazard	Danger	Cause damage to organs (liver, blood system)	Since in the document of Priority 1, there was description that exposure of this product causes liver toxicity and hemolytic anemia (PATTY (5th, 2001)), it was considered as Category 1 (liver, blood systems).
9	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	-	-	No 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.