

GHS Classification

ID1339

anabesine

CAS 494-52-0

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

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	–	–	–	There are no chemical groups associated with explosive properties present in the molecules.
2 Flammable gases	Not applicable	–	–	–	Liquid (GHS definition)
3 Flammable aerosols	Not applicable	–	–	–	Not aerosol products
4 Oxidizing gases	Not applicable	–	–	–	Liquid (GHS definition)
5 Gases under pressure	Not applicable	–	–	–	Liquid (GHS definition)
6 Flammable liquids	Category 4	–	Warning	Combustible liquid	Category 4 because of its flash point: 93degC (BGIA, GESTIS-database on hazardous substances, in Aug. 2006))
7 Flammable solids	Not applicable	–	–	–	Liquid (GHS definition)
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 classified	–	–	–	The firing points is 93 degC (BGIA, GESTIS-database on hazardous substances, Accessed in Aug.2006), and even if it contacts the normal temperature air, it does not ignite spontaneously.
10 Pyrophoric solids	Not applicable	–	–	–	Liquid (GHS definition)
11 Self-heating substances and mixtures	Classification not possible	–	–	–	Test methods applicable to liquid 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	–	–	–	Organic compounds containing no oxygen, fluorine and chlorine.
14 Oxidizing solids	Not applicable	–	–	–	Liquid (GHS definition)
15 Organic peroxides	Not applicable	–	–	–	Organic compounds containing no –O–O– structure
16 Corrosive to metals	Classification not possible	–	–	–	No data available

Health Hazards

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Classification not possible	–	–	–	No data available
1 Acute toxicity (dermal)	Classification not possible	–	–	–	It cannot be classified since there is only guinea pig dermal LDLo (minimum lethal dose) value of 100mg/kg (RTECS, 2006).
1 Acute toxicity (inhalation: gas)	Not applicable	–	–	–	Liquid (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	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)–	No data available
5 Germ cell mutagenicity	Classification not possible	–	–	–	Although there is the report of in vitro mutagenicity test (a chromosome aberration test positives (RTECS, 2006), Ames test negative (HSDB, 2002)), there is no data of in vivo. And it cannot be classified because of insufficient data.
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	Since teratogenicity was seen in the teratogenicity study using pregnant sows (RTECS, 2006, HSDB, 2002) and it was presumed to be caused by pharmacological action on the uterus like that of nicotine (HSDB, 2002), it was set as Category 2. In addition, nicotine (ID 608, CAS: 54-11-5) and nicotine sulfate (ID 1069, CAS: 65-30-5) are set as Category 2.

8	Specific target organs/systemic toxicity following single exposure	Category 2 (nervous system)	Health hazard	Warning	May cause damage to organs (nervous system)	It was considered as Category 2 (nervous systems) based on the description that it causes salivation, giddiness, distraction, vomiting, attack in humans (HSDB, 2002), and tremor and attack were observed in the guinea pig (HSDB, 2002; RTECS, 2006).
9	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	–	–	–	Classification not possible due to lack of data
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.