GHS Classification

Aniline, N-(1-methylethyl)-

ID646 CAS 768–52–5 Physical Hazards

Date Classified: Apr. 20, 2006 (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	-	-	-	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: 87.7 degC (HSDB, 2005)
7 Flammable solids	Not applicable	1	-	-	Liquid (GHS definition)
8 Self-reactive substances and mixtures	Not applicable	I	-	-	There are no chemical groups associated with explosive or self-reactive properties present in the molecule.
9 Pyrophoric liquids	Classification not possible	-	-	-	No data available
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 metaloids(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	-	-	-	Containing no -0-0- structure
16 Corrosive to metals	Classification not possible	-	-	_	No data 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	Category 4 based on SPECIES: Rat; ENDPOINT: LD50; VALUE: 560 mg/kg; REFERENCE SOURCE: ACGIH (2001)
1	Acute toxicity (dermal)	Category 5	-	Warning	May be harmful in contact with skin	It was set as Category 5 from rabbit dermal LD50 = 3550mg/kg (ACGIH (2001)).
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)	Category 4	Exclamation mark	Warning	Harmful if inhaled	Category 4 because of "SPECIES: Rat (aspiration); ENDPOINT: LC50 = 1.2 mg/L /4H" (ACGIH, 2001)
2	Skin corrosion / irritation	Classification not possible	-	-	-	Insufficient data available
	Serious eye damage / eye irritation	Category 2B	-	Warning	Causes eye irritation	Since it was estimated as Mild as a result of Draize test using a rabbit (RTECS (2004)), it was set as Category 2B.
4	Respiratory/skin sensitization	sensitization: Classification not possible; Skin sensitization: Classification not	(Respiratory sensitization)-; (Skin	(Respiratory sensitization)–; (Skin sensitization)–	(Respiratory sensitization)-; (Skin sensitization)-	Skin sensitization: No data Respiratory sensitization: No data
5	Germ cell mutagenicity	Classification not possible	-	-	-	Classification not possible due to lack of data
6	Carcinogenicity	Classification not possible	-	-	-	No data available
7	Toxic to reproduction	Category 2	Health hazard	Warning	Suspected of damaging fertility or the undorn child	Since it is reported fetal malformation, increase of post implantation embryo loss, reduct implantation rate and higher male/female in rat reproduction developmental toxicity test (HSDB (2003)), it is classified into the Category 2.

	Specific target organs/systemic toxicity following single exposure	Category 3 (respiratory tract irritation)	Exclamation mark	Warning	drowsiness and dizziness (respiratory tract	Since airway irritantion was reported by a single exposure with rats (HSDB (2003)), it was set as Category 3 (respiratory irritant).
	Specific target organs/systemic toxicity following repeated exposure	Category 2 (blood)	Health hazard		through prolonged	Since methemoglobinemia and anemia were reported in both endermatic and inhalation examinations in the range of the guidance value of Category 2 (HSDB (2003)) , it was classified to as Category 2 (blood). Change of a spleen, liver, the kidney, and marrow is considered to be the secondary effects accompanying the effects on the blood.
10		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.