GHS Classification

ID1342

1-butylpyrrolidine

CAS 767-10-2 Date Classified: Jan. 23, 2007 (Environmental Hazards: Mar. 31, 2006)

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

Haz	zard 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	1 Oxidizing gases	Not applicable	-	-	-	Liquid (GHS definition)
5	Gases under pressure	Not applicable	-	-	-	Liquid (GHS definition)
6	Flammable liquids	Category 3	Flame	Warning		Category 3 because of its flash point: 34.7degC (Guidance of poison deleterious substance handling, JijiPress Ltd. Latest ed., 2001)
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	-	-		There is description in guidance of toxic substance and highly poisonous substance handling(Jiji Press Co., latest versions, 2001) that the flashing points is 34.7 degC, and since the ignition points was a still higher temperature, it was considered not to ignite spontaneously, even if it contacts the normal temperature air, and was classified as the outside of Category.
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.
	1 Oxidizing solids	Not applicable	-	-	-	Liquid (GHS definition)
15	Organic peroxides	Not applicable	-	-	-	Organic compounds 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 3	Okuli aliu	Danger	Toxic if swallowed	Category 3 based on SPECIES: Mouse; ENDPOINT: LD50; VALUE: 51mg/kg; REFERENCE SOURCE: RTECS (1996)
1	Acute toxicity (dermal)	Category 3	Skull and crossbones	Danger	Toxic in contact with skin	It was set as Category 3 based on mice LD50 = 820mg/kg (RTECS, 1996) of the dermal administration test.
1	Acute toxicity (inhalation: gas)	Not applicable	-	ı	_	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	sensitization: Classification not possible; Skin sensitization: Classification not	sensitization)-; (Skin	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	No data available
5	Germ cell mutagenicity	Classification not possible	-	-	-	No data available
6	Carcinogenicity	Classification not possible	-	-	=	No data available
7	Toxic to reproduction	Classification not possible	-	-	-	No data available

		Category 2 (nervous system); Category 3 (respiratory tract irritation)	Health hazard	Warning	Imay cause damage to organs (nervous system); May cause respiratory irritation or may cause drowsiness and dizziness (respiratory tract	Since the convulsion or the respiratory-organs stimulus was seen in the mouse (RTECS, 1996), it was considered as Category 2 (nervous systems) and Category 3 (respiratory irritant).
	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

Hazar	rd class	Classification	symbol	signal word	hazard statement	Rational for the classification
	ani iranmant (acuta)	Classification not possible	-	-	-	No data available
	:	Classification not possible	ı	-	_	No data available.