GHS Classification

ID1322

1-(4-nitrophenyl)-3-(3-pyridylmethyl)urea

CAS 53558-25-1 Physical Hazards

Date Classified: Mar. 15, 2007 (Environmental Hazards: Mar. 31, 2006)

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

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Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Explosives	Classification not possible	-	-	-	Classification not possible due to lack of data, though the substance contains N-O bonds as chemical groups with explosive properties present and has the oxygen balance calculated at -170.4, higher than -200 of the criteria.
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 classified	-	-	-	Although the grouping relevant to explosive (N-O) is included, the grouping relevant to autoreactive is not included. The uses were pesticide (rodenticide) and it was not considered autoreactive, and it was made into the outside of Category.
9 Pyrophoric liquids	Not applicable	-	-	-	Solid (GHS definition)
10 Pyrophoric solids	Not classified	-	-	-	Non-pyrophoric when in contact with air at a room temperature and used as agricultural chemicals (raticides).
11 Self-heating substances and mixtures	Classification not possible	-	-	-	No data 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	-	-	-	Solid (GHS definition)
14 Oxidizing solids	Classification not possible	-	-	-	No data available
15 Organic peroxides	Not applicable	_	-	-	Organic compounds containing no −0-0- structure
16 Corrosive to metals	Classification not	-	-	-	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 1	Skull and crossbones	Danger	Fatal if swallowed	Based on the LD50 = 4.75mg/kg obtained by statistically processing the rat LD50 values (4.75, 18, and 6.2mg/kg) of HSDB (2005) and RTECS (1997), the substance was classified as Category 1.
1 Acute toxicity (dermal)	Classification not possible	_	-	-	No data available
1 Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Solid (GHS definition)
vapoui)	Not applicable	-	-	-	The vapor pressure of this product is very low (it is 4.52*10^(-7) Pa at 25degC), and it was considered to be difficult to carry out vapor exposure. So it was out of a classification.
mist)	Classification not possible	_	-	-	No data available
	Classification not possible	-	-	-	No data available
3 Serious eye damage / eye irritation	Classification not possible	-	-	-	No data available
	sensitization: Classification not possible; Skin sensitization: Classification not	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	No data available
5 Germ cell mutagenicity	Classification not possible	-	-	-	No data available
	Classification not possible	-	-	-	No data available
7 Toxic to reproduction	Classification not possible	-	_	-	No data available

		Category 2 (pancreas,	Health hazard	Warning	cardiovascular	There is description that in DHP(13th, 2002), SITTIG(4th, 2002), HSFS(2002) of Priority 2 document, it affects pancreatics, a cardiovascular system, eyes, and a nervous system in human, and there are large number of the case report of the humans and animal data which are supportive (HSDB (2005)), it was considered as Category 2 (pancreatic, cardiovascular systems, eyes, nervous systems).
	9 Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	-	-	Although there is a statement which suggests the effect on the human pancreas, a nervous system, and an eye (SITTIG (4th, 2002) and HSFS (2002)), since the data which is supported is not found and data is insufficient, it cannot be classified.
1	O Aspiration hazard	Classification not possible	-	-	-	No data available

Environmental Hazards

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification		
	Classification not possible	-	-	-	No data available		
:	Classification not possible	-	_	-	No data available.		