GHS Classification

ID1052

bendiocarb

CAS 22781-23-3

Date Classified: May 24, 2006 (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	-	-	-	Solid (GHS definition)
3 Flammable aerosols	Not applicable	1	1	_	Not aerosol products
4 Oxidizing gases	Not applicable	ı	ı	_	Solid (GHS definition)
5 Gases under pressure	Not applicable	1	ı	_	Solid (GHS definition)
6 Flammable liquids	Not applicable	ı	ı	_	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	1	ı	_	Solid (GHS definition)
10 Pyrophoric solids	Not classified	-	-	-	Non-pyrophoric when in contact with air at a room temperature and used as agricultural chemicals.
11 Self-heating substances and mixtures	Classification not possible	1	ı	-	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	-	1	-	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	Not applicable	-	-	_	Organic compounds containing oxygen and the oxygen is chemically bonded only to carbon (but not to other elements).
15 Organic peroxides	Not applicable	ı	ı	_	Organic compounds containing no -0-0- structure
16 Corrosive to metals	Classification not possible	-	-	-	Test methods applicable to solid substances are not available.

Health Hazards

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Haz	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification		
1	Acute toxicity (oral)	Category 2	Skull and crossbones	Danger	Fatal if swallowed	The higher toxic value (34mg/kg) was adopted among LD50=34mg/kg (RTECS (2003)) and 179mg/kg (HSDB (2003)), and it was classified as category 2.		
1	Acute toxicity (dermal)	Category 2	Skull and crossbones	Danger	Fatal in contact with skin	The higher toxic value (564mg/kg) was adopted among rat LD50 = 566mg/kg (RTECS (2003)) and 1000mg/kg (HSDB (2003)), and it was set as Category 2.		
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		
	Skin corrosion / irritation	Not classified	-	-	-	Since there is description that skin irritation is not seen in this product as a result of the animal experiments in Priority 1(PDS 52 (1982)), it was carried out the outside of Category.		
3	Serious eye damage / eye irritation	Category 2B	-	Warning		In addition to that it gives temporary light irritation to eyes of animals in Priority 1 (PDS 52 (1982)), it gives irritation to the eye of human in Priority 2 (SITTIG (4th, 2002)). So it was classified into Category 2B.		
4	Respiratory/skin sensitization	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	Not classified	-	-	-	Since there was descriptions with negatives by dominant in rats lethal tests (PDS 52 (1982)), it carried out the outside of Category according to classification guidelines. In addition, there is not other in vivo test report.		
6	Carcinogenicity	Not classified	-	-	-	Since there was a description that the effect was not observed in rat and mouse in carcinogenicity tests(PDS 52 (1982)), it was out of the Category.		
7	Toxic to reproduction	Not classified	-	-	-	Since there was description that effect was not seen in teratogenicity studies and the reproduction studies of rats and rabbits (species unknown) (PDS 52 (1982)), it was considered as the outside of Category.		
8	Specific target organs/systemic toxicity following single exposure	Category 2 (nervous system)	Health hazard			The substance was classified as Category 2 (nervous system) because of the reports in Priority 2 that it affects the nervous system in humans (HSDB (2003), SITTIG (4th, 2002)) and because the substance is a carbamate pesticide (invalid) and has cholinesterase inhibitory effects.		

9	Itoxicity following repeated	Classification not possible	-	-	-	No data available
10		Classification not possible	-	-	-	No data available

Environmental Hazards

Ha	zard class	Classification	svmbol	signal word	hazard statement	Rational for the classification
	1 Hazardous to the aquatic	Classification not possible	-	-		Insufficient data available.
1		Classification not possible	-	ı	-	Classification not possible due to lack of data