GHS Classification

ID1369

monensin

CAS 17090-79-8

Date Classified: Dec. 18, 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	-	-	Not aerosol products
4 Oxidizing gases	Not applicable	ı	-	-	Solid (GHS definition)
5 Gases under pressure	Not applicable	1	-	-	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 applicable	-	-	-	There are no chemical groups associated with explosive or self-reactive properties present in the molecule.
9 Pyrophoric liquids	Not applicable	-	-	-	Solid (GHS definition)
10 Pyrophoric solids	Not classified	-	=	_	Non-pyrophoric when in contact with air at a room temperature (antibiotic of microorganism origin and non-pyrophoric structurally)
11 Self-heating substances and mixtures	Classification not possible	-	-	-	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	-	-	-	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 and hydrogen (but not to other elements).
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

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Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification	
1 Acute toxicity (oral)	Category 3	Skull and crossbones	Danger	Toxic if swallowed	Based on the LD50 = 100mg/kg in the oral administration tests with rats (HSDB, 2002; RTECS, 2005), the substance was classified as Category 3. [Note] Also refer to ID No.1370, monensin sodium (CAS No.22373-78-0) for the health hazards.	
1 Acute toxicity (dermal)	Classification not possible	-	-		No data available	
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	
2 Skin corrosion / irritation	Category 3	-		Causes mild skin irritation	From the description that it stimulates human and rabbit skin at mild (Mild) degree (HSDB, 2002; RTECS, 2005), it was set as category 3.	
3 Serious eye damage / eye irritation	Category 2A	Exclamation mark	Warning	Causes serious eye irritation	It is set as Category 2A from description that it stimulates to moderate to human and rabbit eye (HSDB, 2002; RTECS, 2005).	
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	Classification not possible	-	-	=	No data available	
6 Carcinogenicity	Classification not possible	-	-	-	No data available	

7		Classification not possible	-	-	-	No data available
		muscles, kidneys, heart)	Health hazard	Warning		Since there was description that it results in renal insufficiency or heart failure after fusion of striated muscles in humans (HSDB, 2002), it was considered as Category 2 (skeletal muscle, kidney, heart).
	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	ı	-	No data available
10	•	Classification not possible	-	-	_	No data available

Environmental Hazards

На	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	-	-	-	Classification not possible due to lack of data