GHS Classification

ID1232

cicloheximide

Date Classified: Oct. 23, 2006 (Environmental Hazards: Mar. 31, 2006)

CAS 66-81-9 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)
	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 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 and used as agricultural chemicals.
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 (but not to other elements).
15 Organic peroxides	Not applicable	-	-	-	Organic compounds containing no −0−0− structure
16 Corrosive to metals	Classification not possible	-	-	-	Test methods applicable to solid substances are not available. Non-corrosive to metals (HSDB, 2002)

Health Hazards

Haz	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification
	Acute toxicity (oral)	Category 1	Skull and crossbones	Danger	Fatal if swallowed	Based on the rat oral LD50 values : 2mg/kg (RTECS(2004), HSDB (2002)) and 3.7mg/kg (SITTIG (4th, 2002)), we adopted the value indicating the higher toxicity (LD50 = 2mg/kg), and classify the substance as Category 1.
-		Classification not possible	-	-	-	No data available
1	Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Solid (GHS definition)
	Acute toxicity (inhalation: vapour)	Classification not possible	-	-	-	No data available
	Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	-	No data available
2	Skin corrosion / irritation	Category 2	Exclamation mark	Warning	Causes skin irritation	Since there is a stimulate of "Moderate (moderately)" in Standard Draize Test in a rabbit (RTECS (2004)), and there was description that the human skin is stimulated (ICSC (J), (1997), HSDB (2002), SITTIG (4th, 2002), HSFS (1999)), it was set as category 2.
3	Serious eye damage / eye irritation	Category 2A-2B	Exclamation mark	Warning	Causes serious eye irritation	Since there was description that the human eye is stimulated (ICSC (J), (1997), SITTIG (4th, 2002), and HSFS (1999)), it was set as Category 2A-2B. In addition, the detailed categorization from this data is difficult.
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	Category 2	Health hazard	Warning	Suspected of causing genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	It was positive (RTECS (2004)) by the mouse bone marrow small core test, and it is classified into Category 2. In addition, negative result is reported by the Ames test of the in vitro genotoxicity study and the positivity is reported by the mouse lymphoma test (RTECS (2004)).

6		Classification not possible	-	-	-	No data available
7	Toxic to reproduction	Category 1B	Health hazard	Danger	way damage fertility	Since embryo absorptions, fetus lethal, and skeletal abnormalities such as polymelia, were seen in pregnant rats/mouse (Catalogue of Teratogenic agent (2004) and RTECS (2004)), and EU risk phrases are "R61 and a category 2", and developmental was indicated in California EPA Prop 65 (2006), it was set as Category1B.
_	toxicity following single exposure	Classification not possible	-	-	-	Althouh there is a report that symptoms, such as saliva oversecretion and excitement of the temporary central nerves accompanied by diarrhea and a tremor, were observed in oral administration experiment against rats, monkey and dogs (HSDB (2002)), it cannot be classified due to insufficient data such as unknown dose .
9	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

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
11 Hazardous to the aquatic environment (acute)	Category 2	-	-	Toxic to aquatic life	It was classified into Category 2 from 96-hour LC50=1400microg/L of fishes (Rainbow trout) (AQUIRE, 2003).
11 Hazardous to the aquatic environment (chronic)	Category 2	Environment	-	Toxic to aquatic life with long lasting effects	Classified into Category 2, since acute toxicity was Category 2 and not rapidly degrading (BOD: 1% (existing chemical safety inspections data)), though less bio-accumulative (BCF<2.8 (existing chemical safety inspections data)).