

GHS Classification

ID801

methyl 2-[[[(4,6-dimethyl-2-pyrimidinyl)amino]carbonyl]amino]sulphonyl]benzoate

CAS 74222-97-2

Date Classified: Apr. 20, 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	Classification not possible	-	-	-	No data available
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	Classification not possible	-	-	-	No data available
9 Pyrophoric liquids	Not applicable	-	-	-	Solid (GHS definition)
10 Pyrophoric solids	Classification not possible	-	-	-	No data available
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 metalloids(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	-	-	-	Containing no -O-O- structure
16 Corrosive to metals	Classification not possible	-	-	-	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)	Not classified	-	-	-	Based on the description (ACGIH (2001)) of "there is no death of male and female rats after 5000 mg/kg of oral administration", it was set as the outside of Category.
1 Acute toxicity (dermal)	Not classified	-	-	-	Based on the description that "There is no death after dermal administration of 2000mg/kg to male and female rabbits"(ACGIH (2001)), it was set as the outside of Category.
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)	Not classified	-	-	-	Based on description that "there is no death in male and female rats after 4-hour inhalation exposure of 11000mg/m ³ " (ACGIH (2001)), it was set as the outside of Category. (11000mg/m ³ = 11mg/L)
2 Skin corrosion / irritation	Category 2	Exclamation mark	Warning	Causes skin irritation	In the skin irritation test on rabbits, "Slight irritation (1.3 - 2.9 on a scale of 5 for primary irritation)", and in the test on guinea pigs, it was estimated to have "Mild skin irritation" (ACGIH (2001)). Therefore, it was classified as Category 2.
3 Serious eye damage / eye irritation	Category 2B	-	Warning	Causes eye irritation	There is the description that although in the two tests applied to the eyes of the rabbits, mild conjunctivitis or mild corneal cloudings were started respectively, they were recovered within two days or four days, respectively (ACGIH (2001)). So it was set as Category 2B.
4 Respiratory/skin sensitization	Respiratory sensitization: Classification not possible; Skin sensitization: Not possible	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	[Respiratory sensitization] :No data. [Skin sensitization] Based on the estimation as "No sensitization" (ACGIH (2001)) about the test using guinea pigs, we classified it as Out Of Category.
5 Germ cell mutagenicity	Classification not possible	-	-	-	Classification not possible due to lack of data
6 Carcinogenicity	Not classified	-	-	-	Based on being classified into A4 (1994) according to ACGIH, it carried out the outside of Category. Additionally, in the carcinogenicity test by the mix feed medication using rats and mice, the increase in tumorigenic frequency is not admitted for both kinds of animals.

7	Toxic to reproduction	Category 2	Health hazard	Warning	Suspected of damaging fertility or the unborn child	It was classified into Category 2 since decrease in litter size of high dose group compared with of the control group in the two-generation reproduction test of rat (ACGIH (2001)) and there was no descriptions about the general toxicity in parent animal.
8	Specific target organs/systemic toxicity following single exposure	Classification not possible	-	-	-	No data available.
9	Specific target organs/systemic toxicity following repeated exposure	Not classified	-	-	-	Affect to the blood systems is acknowledged in a rat, mice and dogs in several studies which carried out repetitive exposure for two week-two years (ACGIH (2001)), however, since all were beyond guidance values, the expressed dose made them the outside of Category.
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 1	Environment	Warning	Very toxic to aquatic life	It was classified into Category 1 from 14 days EC50=0.48ppb of aquatic plant (Lemna gibba) (AQUIRE, 2003).
11 Hazardous to the aquatic environment (chronic)	Category 1	Environment	Warning	Very toxic to aquatic life with long lasting effects	Classified into Category 1, since acute toxicity was Category 1, supposed not rapidly degrading (BIOWIN), though supposed less bioaccumulative (log Kow=1.2(PHYSPROP Database, 2005)).