GHS Classification

ID511

9-Methoxy-7H-furo[3,2-g][1]benzopyran-7-one; Methoxsalen Date Classified: Sep. 20, 2006 (Environmental Hazards: Mar. 31, 2006)

CAS 298–81–7 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	-	-	-	Containing no chemical groups with explosive properties
2 Flammable gases	Not applicable	-	-	-	Classified as "solid" according to GHS definition
3 Flammable aerosols	Not applicable	-	-	-	Not aerosol products
4 Oxidizing gases	Not applicable	I	-	-	Classified as "solid" according to GHS definition
5 Gases under pressure	Not applicable	I	-	-	Classified as "solid" according to GHS definition
6 Flammable liquids	Not applicable	I	-		Classified as "solid" according to GHS definition
7 Flammable solids	Classification not possible	-	-	-	Classification not possible due to lack of data, though classified as flammable according to HSDB (2006).
8 Self-reactive substances and mixtures	Classification not possible	-	-	-	Classification not possible due to lack of data, though containing unsaturated bonds (olefin)
9 Pyrophoric liquids	Not applicable	I	-	-	Classified as "solid" according to GHS definition
10 Pyrophoric solids	Classification not possible	I	-	-	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	-	_	-	Containing no metallo or metalloids (B, Si, P, Ge, As, Se, Sn, Sb, Te, Bi, Po, At)
13 Oxidizing liquids	Not applicable	-	-	-	Classified as "solid" according to GHS definition
14 Oxidizing solids	Not applicable	-	-	-	Organic compounds containing oxygen (but not fluorine and chlorine), with the oxygen bound to carbon and hydrogen (but not to other elements)
15 Organic peroxides	Not applicable	I	-	-	Organic compounds containing no "-O-O-" structure
16 Corrosive to metals	Classification not possible	-	-	-	Test methods applicable to solid substances are not available

Health Hazards

Haz	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	Acute toxicity (oral)	Category 4	Exclamation mark	Warning	Harmful if swallowed	Based on the rat LD50 (oral route) value of 420mg/kg representing the lower of the two testing data, 420mg/kg and 791mg/kg (CERI Hazard Data 2000-36 (2001)).
1	Acute toxicity (dermal)	Classification not possible	-	-	-	No data available
1	Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Due to the fact that the substance is "solid" according to the GHS definition and inhalation of its gas is not expected.
1	Acute toxicity (inhalation:	Classification not possible	-	-	-	No data available
1	Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	-	No data available
2	Skin corrosion / irritation	Classification not possible	-	-	-	No data available
3	Serious eye damage / eye irritation	Classification not possible	-	_	_	No data available
4	Respiratory/skin sensitization	Respiratory sensitization: Classification not possible Skin sensitization: Classification not possible	(Respiratory sensitization)— (Skin sensitization)—	(Respiratory sensitization)— (Skin sensitization)—	(Respiratory sensitization)— (Skin sensitization)—	Respiratory sensitization: No data available Skin sensitization: No data available
5	Germ cell mutagenicity	Category 2	Health hazard	Warning	Suspected of causing genetic defects	Based on the absence of data on multi-generation mutagenicity tests, germ cell mutagenicity tests in vivo and germ cell genotoxicity tests in vivo, and positive data on somatic cell mutagenicity tests in vivo (micronucleus tests), described in NTP DB (Access on May 2006) and CERI Hazard Data 2000-36 (2001).
6	Carcinogenicity	Category 1A	Health hazard	Danger	May cause cancer	Due to the fact that the substance is classified as Group 1 (8-Methoxypsoralen (Methoxsalen) [298-81-7] plus ultraviolet A radiation) by IARC (1999) and Category K (Methoxsalen with Ultraviolet A Therapy (PUVA)) by NTP (2005).
7	Toxic to reproduction	Classification not possible	-	-	-	No data available
8	Specific target organs/systemic toxicity following single exposure		Health hazard	Warning	May cause damage to organs (nervous system)	Based on the evidence from animal studies including "spasm, altered locomotor activity, ataxia" (RTECS (2005)). The effects on experimental animals were observed at dosing levels within the guidance value ranges for Category 2.
	exposure	Category 2 (kidneys, thyroid gland)	Health hazard	Warning	May cause damage to organs through prolonged or repeated exposure (kidneys,	Based on the evidence from animal studies including "hyperplasia of the renal tubular epithelium, chronic nephritis, inflammation/ulceration/hyperplasia of the proventricular mucosal epithelium, and hyperplasia of the follicular epithelium in the thyroid gland" (CERI Hazard Data 2000-36 (2001)). The effects on experimental animals were observed at dosing levels within the guidance value ranges for Category 2.
10	Aspiration hazard	Classification not possible	-	-	-	No data available

Environmental Hazards

[Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification		
Ī	11 Hazardous to the aquatic environment (acute)	Classification not possible	-	-	-	Classification not possible due to lack of data		
	11 Hazardous to the aquatic environment (chronic)	Classification not possible	-	-	-	Classification not possible due to lack of data		