## **GHS Classification**

ID1227

dioxacarb

CAS 6988-21-2

Date Classified: Jan. 23, 2007 (Environmental Hazards: Mar. 31, 2006)

Physical Hazards Reference Manual: GHS Classification Manual (Feb. 10, 2006)

Haza	ard 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	-	-	-	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	Not classified	-	-	-	There is a description that flash point is 100 degC in BGIA and GESTIS-database on hazardous substancess (Accessed in 2006), and it was classified as out of Category.
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.

## **Health Hazards**

Haz	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	Acute toxicity (oral)	Category 2	Skull and crossbones	Danger		Based on the rat oral LD50 values : 25mg/kg and 55mg/kg (both RTECS (2003)), we adopted the lower value to classify the substance as Category 2.
1	Acute toxicity (dermal)	Category 4	Exclamation mark	Warning		Rat dermal LD50 = 3g/kg (RTECS (2003)). Rabbit LD50 = 1950mg/kg (RTECS (2003)). The lower value (LD50=1950 mg/kg) was adopted, and it was set as Category 4.
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	-	-	-	There is the knowledge that rat LC50 = 160mg/m3 (RTECS (2003)). But exposure time is unknown and it cannot taxonomic according to insufficient data.
	Skin corrosion / irritation	Classification not possible	-	-	-	No data available
3	Serious eye damage / eye irritation	Category 2A-2B	Exclamation mark	Warning		Since severe effect was seen in the Standard Draize Test of a rabbit eye (RTECS (2003)), it was set as Category 2A-2B. In addition, detailed categorization is difficult.
4	Respiratory/skin sensitization	sensitization: Classification not possible; Skin sensitization: Classification not	sensitization)-; (Skin	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	No data available
5	Germ cell mutagenicity	Classification not possible	-	-	-	No data available
	Carcinogenicity	Classification not possible	-	-	-	No data available
	Toxic to reproduction	Category 1B	Health hazard	Danger		Since postimplantation loss and disorder to urogenital systems being seen by oral administration to pregnant rabbits, and effects against dam animals were not indicated (all are RTECS (2003)), it was set as Category1B.
8	Specific target organs/systemic toxicity following single exposure	Classification not possible	_	-	-	No data available.

	9 Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	I	-	No data available
1	Aspiration hazard	Classification not possible	-	-	-	No data available

## **Environmental Hazards**

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H	lazard class	Classification	symbol	signal word	hazard statement	Rational for the classification	
Ī	11 Hazardous to the aquatic environment (acute)	Category 3	-	-	Harmful to aquatic life	It was classified into Category 3 from 96-hour LC50=23400microg/L of fishes (Goldfish) (AQUIRE, 2003).	
	11 Hazardous to the aquatic environment (chronic)	Category 3	-	-	Harmful to aquatic life with long lasting effects	Classified into Category 3, since acute toxicity was Category 3 and supposed not rapidly degrading (BIOWIN), though supposed less bio-accumulative (log Kow=0.67(PHYSPROP Database, 2005)).	