### **GHS Classification**

## ID407 CAS 71561-11-0 Physical Hazards

# 2-[4-(2,4-dichlorobenzoyl)-1,3-dimethyl-5-pyrazolyloxy]acetophenone Date Classified: Dec. 18, 2006 (Environmental Hazards: Mar. 31, 2006)

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

Haz	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	Explosives	Not applicable	-	ı	_	Containing no chemical groups with explosive properties
2	Flammable gases	Not applicable	_	ı	_	Classified as "solid" according to GHS definition
3	Flammable aerosols	Not applicable	-	ı	_	Not aerosol products
4	Oxidizing gases	Not applicable	_	ı	_	Classified as "solid" according to GHS definition
5	Gases under pressure	Not applicable	-	ı	_	Classified as "solid" according to GHS definition
6	Flammable liquids	Not applicable	_	ı	_	Classified as "solid" according to GHS definition
7	Flammable solids	Classification not possible	-	ı	_	Classification not possible due to lack of data
8	Self-reactive substances and mixtures	Not applicable	-	I	_	Containing no chemical groups with explosive or self-reactive properties
9	Pyrophoric liquids	Not applicable	-	-	-	Classified as "solid" according to GHS definition
10	Pyrophoric solids	Classification not possible	-	ı	-	Classification not possible due to lack of data
11	Self-heating substances and mixtures	Classification not possible	-	_	_	Test method applicable to liquid substances are not available (melting point: 111-112degC (Agricultural Chemical Registration Data), test temperature: 140degC).
12	Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	_	-	-	Containing no metals or metalloids (B, Si, P, Ge, As, Se, Sn, Sb, Te, Bi, Po, At)
13	Oxidizing liquids	Not applicable	1	-	-	Classified as "solid" according to GHS definition
14	Oxidizing solids	Not applicable	_	_	_	Organic compounds containing chlorine and oxygen (but not fluorine), with the chlorine and oxygen bound to carbon and hydrogen (but not to other elements)
15	Organic peroxides	Not applicable	_	1	_	Organic compounds containing no "-0-0-" structure
16	Corrosive to metals	Classification not possible	-	_	-	Test methods applicable to solid substances with melting point of >55degC are not available (melting point: 111-112degC (Agricultural Chemical Registration Data)).

### **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 1,644mg/kg (Agricultural Chemical Registration Data (1984)).
1	Acute toxicity (dermal)	Not classified	_	-	-	Based on the rat LD50 (dermal route) value of >5,000mg/kg (Agricultural Chemical Registration Data (1984)).
1	Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Due to the fact that the substance is a solid according to the GHS criteria 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	-	-	-	Classification cannot be determined, though the available rat inhalation study reported the LC50 value of >0.28mg/L (Agricultural Chemical Registration Data (1984)).
2	Skin corrosion / irritation	Not classified	-	-	-	Based on no evidence of irritation observed in rabbit skin irritation tests (Agricultural Chemical Registration Data (1984)).
3	Serious eye damage / eye irritation	Category 2B	_	Warning	Causes eye irritation	Based on the evidence of mild irritation reactions which were fully reversed within 3 days, observed in rabbit eye irritation tests (Agricultural Chemical Registration Data (1984)).
4	Respiratory/skin sensitization	Respiratory sensitization: Classification not possible Skin sensitization: Not classified	(Respiratory sensitization) — (Skin sensitization) —	(Respiratory sensitization)— (Skin sensitization)—	(Respiratory sensitization)— (Skin sensitization)—	Respiratory sensitization: No data available Skin sensitization: No skin sensitizing potential was found in guinea pig sensitization tests employing the Buehler method (Agricultural Chemical Registration Data (1989)).
5	Germ cell mutagenicity	Not classified	_	-	-	Based on negative data in micronucleus tests on mouse bone marrow cells, though in vitro reverse mutation tests showed negative whereas in vitro chromosome aberration tests gave false positive results (Agricultural Chemical Registration Data (1984, 1989, 1992)).
6	Carcinogenicity	Not classified	_	-	-	There was no evidence of treatment-related incidence of tumor formation observed in rat/mouse carcinogenicity studies (Agricultural Chemical Registration Data (1984)).
7	Toxic to reproduction	Not classified	_	-	_	Based on no evidence of adverse effects on parental reproduction and offspring development observed in rat 2-generation reproduction studies and rat/rabbit teratogenicity studies (Agricultural Chemical Registration Data (1989)).

	Specific target organs/systemic toxicity following single exposure				organs (nervous system)	Based on the evidence from animal studies including "tetraplegia," "reduced activity," "staggering," "lacrimation," "blood-like gum along the lid-margin," "piloerection," "emaciation," "gait disturbance" and "coma" (Agricultural Chemical Registration Data (1984)). These effects were observed at dosing levels within the guidance value ranges for Category 2.
9	Specific target organs/systemic toxicity following repeated exposure	Category 1 (pancreas)	Health hazard			Based on the evidence from animal studies (Agricultural Chemical Registration Data (1984)): "atrophic changes of pancreatic exocrine cells" observed at dosing levels within the guidance value ranges for Category 1.
10	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			
	11 Hazardous to the aquatic environment (acute)	Category 1	Environment	Warning	Very toxic to aquatic life	It was classified into Category 1 from 96 hours LC50=0.89mg/L of the fish (Carp) (Agricultural Chemical Registration Data, 2005).			
	11 Hazardous to the aquatic environment (chronic)	Category 1	Environment			Although acute toxicity is Category 1 and bio-accumulation is low (log Kow=3.69(PHYSPROP Database, 2005)), since there was no rapidly degrading (BIOWIN), it was classified into Category 1.			