## **GHS** Classification

## ID378

# 1-({2-[2-chloro-4-(4-chlorophenoxy)phenyl]-4-methyl-1,3-dioxolan-2-yl}methyl)-1H-1,2,4-triazole Date Classified: Dec. 18, 2006 (Environmental Hazards: Mar. 31, 2006)

CAS 119446-68-3 Physical Hazards

Date Classified: Dec. 18, 2006 (Environmental Hazards: Mar. 31, 2006) 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	-	-	-	Classified as "solid" according to GHS definition
5 Gases under pressure	Not applicable	-	-	-	Classified as "solid" according to GHS definition
6 Flammable liquids	Not applicable	-	-	-	Classified as "solid" according to GHS definition
7 Flammable solids	Classification not possible	-	-	-	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	Not classified	-	-	-	Considered non-pyrophoric when in contact with air at ordinary temperatures since the substance is stable to heat (up to 150degC) (Agricultural Chemical Registration Data).
11 Self-heating substances and mixtures	Not classified	_	-	_	Stable to heat (up to 150degC) (Agricultural Chemical Registration Data)
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	-	-	-	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	-	-	-	Organic compounds containing no "-O-O-" structure
16 Corrosive to metals	Classification not possible	-	_	-	Test methods applicable to solid substances with melting point of >55degC are not available (melting point: 82.0-83.0degC (Agricultural Chemical Registration Data)).

#### Health Hazards

Haza	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 1,453mg/kg (Agricultural Chemical Registration Data (1992)).
1	Acute toxicity (dermal)	Not classified	-	-	-	Based on the rabbit LD50 (dermal route) value of >2,010mg/kg, together with the absence of mortality (Agricultural Chemical Registration Data (1992)).
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
	Acute toxicity (inhalation: dust, mist)	Category 4	Exclamation mark	Warning	Harmful if inhaled	Based on the rat LC50 (inhalation route) value of 3.29mg/L (Agricultural Chemical Registration Data (1992)).
2	Skin corrosion / irritation	Not classified	-	-	_	Based on the evidence of mild irritation (Draize score of 0.17 at 24 hours), which cleared up by 48 hours, observed in rabbit skin irritation tests (Agricultural Chemical Registration Data (1992)).
3	Serious eye damage / eye irritation	Category 2B	-	Warning	Causes eye irritation	Based on test data from rabbit eye irritation studies (Agricultural Chemical Registration Data (1992)): "Caused irritation, which resolved within 7 days."
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 using the Buehler method (Agricultural Chemical Registration Data (1992)).
5	Germ cell mutagenicity	Not classified	-	-	_	Based on negative data in in vitro reverse mutation tests, in vitro chromosome aberration tests and in vivo micronucleus tests on mouse bone marrow cells (Agricultural Chemical Registration Data (1992, 2004)).
6	Carcinogenicity	Not classified	-	-	_	Due to the fact that the substance is classified as Category C by EPA (1999), though an increase in the incidence of hepatoma formation was observed at 2,500ppm (ca.46mg/kg/day) in 78-week dietary studies in mice, reported in Agricultural Chemical Registration Data (1992).
7	Toxic to reproduction	Not classified	-	-	-	Based on no evidence of adverse effects on reproduction or offspring development observed in rat 2-generation reproduction studies and rat/rabbi teratogenicity studies (Agricultural Chemical Registration Data (1992)).

8 Specific target organs/systemic toxicity following single exposure		-	-		No toxic symptoms or signs referable to specific target organs were reported in the available animal studies (Agricultural Chemical Registration Data (1992)).
	Classification not possible				Clinical signs and symptoms including "reduced locomotor activity," "staggering gait," "crawling," "prone position," "lateral position," "sedation," "weakness" and "emaciation" were reported. However, these symptoms probably occurred shortly before death at around acute toxic levels, and were not considered to provide evidence for the classification.
9 Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	-	-	Insufficient 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 1	Environment	Warning	Very toxic to aquatic life	It was classified into Category 1 from 48 hours EC50=0.77mg/L of the crustacea (Daphnia magna) (Agricultural Chemical Registration Data, 2004).
11 Hazardous to the aquatic environment (chronic)	Category 1	Environment			Since acute toxicity was Category 1 and there was no rapidly degrading (BIOWIN), and since there wasbio-accumulation (log Kow=4.3 (PHYSPROP Database, 2005)), it was classified into Category 1.