## **GHS Classification**

ID376 CAS 51218-45-2 Physical Hazards

## 2-chloro-2'-ethyl-N-(2-methoxy-1-methylethyl)-6'-methylacetanilide Date Classified: Dec. 18, 2006 (Environmental Hazards: Mar. 31, 2006)

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	-	_	-	Containing no chemical groups with explosive properties
2	Flammable gases	Not applicable	-	_	-	Classified as "liquid" according to GHS definition
3	Flammable aerosols	Not applicable	-	_	-	Not aerosol products
4	Oxidizing gases	Not applicable	_	-	_	Classified as "liquid" according to GHS definition
5	Gases under pressure	Not applicable	-	_	-	Classified as "liquid" according to GHS definition
6	Flammable liquids	Not classified	_	-	_	The flash point is 190degC (ICSC (2000)).
7	Flammable solids	Not applicable	_	-	_	Classified as "liquid" according to GHS definition
8	Self-reactive substances and mixtures	Not applicable	_	-	_	Containing no chemical groups with explosive or self-reactive properties
9	Pyrophoric liquids	Classification not possible	_	-	_	Classification not possible due to lack of data
10	Pyrophoric solids	Not applicable	_	-	_	Classified as "liquid" according to GHS definition
11	Self-heating substances and mixtures	Classification not possible	_	-	_	Test method applicable to liquid substances are not available (test temperature: 140degC).
	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	-	-		Organic compounds containing chlorine and oxygen (but not fluorine), with the chlorine and oxygen bound to carbon and hydrogen (but not to other elements)
14	Oxidizing solids	Not applicable	_	_	_	Classified as "liquid" according to GHS definition
15	Organic peroxides	Not applicable	_	-	_	Organic compounds containing no "-0-0-" structure
16	Corrosive to metals	Classification not possible	-	_	-	Classification not possible due to lack of data

## **Health Hazards**

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Category 5	_	Warning	May be harmful if swallowed	Based on the rat LD50 (oral route) value of 2,200mg/kg (Agricultural Chemical Registration Data (1986)).
1 Acute toxicity (dermal)	Not classified	_	_	-	Based on the rat LD50 (dermal route) value of >4,000mg/kg, together with the absence of mortality at the highest dose of 4000mg/kg (Agricultural Chemical Registration Data (1986)).
1 Acute toxicity (inhalation: gas)	Not applicable	_	_	-	Due to the fact that the substance is a liquid 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	-	-	_	Although no deaths were observed in rats receiving an inhalation dose of 1.75mg/L, there are no test data available for higher doses (Agricultural Chemical Registration Data (1986)).
2 Skin corrosion / irritation	Not classified	-	_	_	In rabbit skin irritation tests, the treated animals exhibited a Draize score of 0.34 at 24 hours, but the effects disappeared by 48 hours (Agricultural Chemical Registration Data (1986)).
3 Serious eye damage / eye irritation	Not classified	-	_	-	Based on no evidence of irritation observed in rabbit eye irritation studies (Agricultural Chemical Registration Data (1986)).
4 Respiratory/skin sensitization	Respiratory sensitization: Classification not possible Skin sensitization: Category 1	(Respiratory sensitization) — (Skin sensitization) Exclamation mark	(Respiratory sensitization) — (Skin sensitization) Warning	(Respiratory sensitization)— (Skin sensitization) May cause an allergic skin reaction	Respiratory sensitization: No data available Skin sensitization: Based on positive results in guinea pig skin sensitization tests employing the Optimization test method (Agricultural Chemical Registration Data (1986)).
5 Germ cell mutagenicity	Not classified	-	_	_	Based on negative data in in vitro reverse mutation tests and in vivo micronucleus tests on mouse bone marrow cells (Agricultural Chemical Registration Data (1986)), though in vitro chromosome aberration tests showed positive.
6 Carcinogenicity	Not classified	-	-	_	There was no evidence of treatment-related incidence of tumor formation observed in 104-week carcinogenicity studies in rats and mice (Agricultural Chemical Registration Data (1986)). Also due to the fact that the substance is classified as Category C by EPA (1993).
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/rabbit teratogenicity studies (Agricultural Chemical Registration Data (1986)).

	Specific target organs/systemic toxicity following single exposure		-	-	_	No toxic symptoms or signs referable to specific target organs were observed in the available animal studies (Agricultural Chemical Registration Data (1986)).
Ş	9 Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	_		No toxic symptoms or signs referable to specific target organs were observed at dose levels within the guidance value ranges for Category 2 in the available subacute toxicity studies in rats (Agricultural Chemical Registration Data (2004)).
10		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 72 hours EbC50=0.1mg/L of the algae (Green Algae) (Agricultural Chemical Registration Data, 2004).			
	11 Hazardous to the aquatic environment (chronic)	Category 1	Environment			Although acute toxicity is Category 1 and bio-accumulation is low (log Kow=3.13(PHYSPROP Database, 2005)), since there was no rapidly degrading (BIOWIN), it was classified into Category 1.			