## **GHS Classification**

## ID357 CAS 25319-90-8 **Physical Hazards**

# S-Ethyl 2-(4-chloro-2-methylphenoxy)thioacetate; Phenothiol; MCPA-thioethyl Date Classified: Nov. 20, 2006 (Environmental Hazards: Mar. 31, 2006)

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

Hazard clas	SS	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Explosiv	ves	Not applicable	-	_	-	Containing no chemical groups with explosive properties
2 Flamma	able gases	Not applicable	-	_	-	Classified as "solid" according to GHS definition
3 Flamma	able aerosols	Not applicable	-	_	-	Not aerosol products
4 Oxidizing	ng gases	Not applicable	_	-	_	Classified as "solid" according to GHS definition
5 Gases u	under pressure	Not applicable	-	-	_	Classified as "solid" according to GHS definition
6 Flamma	able liquids	Not applicable	_	-	_	Classified as "solid" according to GHS definition
7 Flamma	able solids	Classification not possible	-	-	_	No data available
8 Self-read mixtures	ective substances and s	Not applicable	_	-	_	Containing no chemical groups with explosive or self-reactive properties
9 Pyropho	oric liquids	Not applicable	-	_	-	Classified as "solid" according to GHS definition
10 Pyropho	oric solids	Classification not possible	-	_	-	No data available
11 Self-hea mixtures	ating substances and s	Classification not possible	-	-	-	Test methods applicable to liquid substances are not available (melting point: 41.5degC (Agricultural Chemical Registration Data), test temperature: 140degC).
in contac	nces and mixtures, which act with water, emit ble gases	Not applicable	1	_	_	Containing no metals or metalloids (B, Si, P, Ge, As, Se, Sn, Sb, Te, Bi, Po, At)
13 Oxidizing	ig liquids	Not applicable	-	_	-	Classified as "solid" according to GHS definition
14 Oxidizin	ng 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 "-0-0-" structure
16 Corrosiv	ve to metals	Classification not possible	-	_	-	No data available on substances with melting point of >55degC (melting point: 41.5degC (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 790mg/kg (Agricultural Chemical Registration Data (1999)).
1	Acute toxicity (dermal)	Not classified	-	_	-	Based on the rat LD50 (dermal route) value of >5,000mg/kg (Agricultural Chemical Registration Data (1999)).
1	Acute toxicity (inhalation: gas)	Not applicable	_	-	_	Due to the fact that the substance is a 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	-	_	_	Classification not possible because the available rat inhalation LC50 of >0.044mg/L (the upper limit of experimentally feasible range of concentrations) is not classifiable (Agricultural Chemical Registration Data (1999)).
2		Not classified	_	ı		In rabbit skin irritation tests, only mild irritation reactions were seen immediately after the application. The reactions were fully reversible within 48 hours (Agricultural Chemical Registration Data (1999)).
3	Serious eye damage / eye irritation	Category 2B	_	Warning		Based on the data from rabbit eye irritation tests (Agricultural Chemical Registration Data (2003)): "Slightly irritating, with effects fully reversible within 4 days."
4	, <b>,</b>	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: Based on no evidence of sensitization observed in guinea pig skin sensitization tests (Agricultural Chemical Registration Data (2003)).
5	Germ cell mutagenicity	Not classified	_	_		Based on negative data on in vitro reverse mutation tests (Agricultural Chemical Registration Data (1999)) and chromosome aberration tests (Agricultural Chemical Registration Data (1999)), and in vivo micronucleus tests on mouse bone marrow cells (Agricultural Chemical Registration
6	Carcinogenicity	Not classified	_	-	_	There was no treatment-related evidence of tumor formation observed in 2-year (rats) and 18-month (mice) carcinogenicity studies (Agricultural Chemical Registration Data (1999)).
7	Toxic to reproduction	Not classified	_	ı		Based on no evidence of adverse effects on reproduction and offspring development in rat 3-generation reproduction studies and rat/rabbit teratogenicity studies (Agricultural Chemical Registration Data (1999)).
8	Specific target organs/systemic toxicity following single exposure		Health hazard	Warning		In rat single dose toxicity studies, clinical signs and symptoms including blepharoptosis, rigid limbs and weakness, staggering gait, reduced reflex, prone position, and coma were reported (Agricultural Chemical Registration Data (1999)). These effects were observed at dosing levels within the guidance value ranges for Category 2.
9	exposure	Category 2 (central nervous system)	Health hazard	Warning		In rat subacute toxicity studies, evidence of lysis and vacuolization of brainstem neurons, and atrophy of anterior horn cells of spinal cord were reported (Agricultural Chemical Registration Data (1999)). These effects 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
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 LC50=0.169mg/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=4.05 (PHYSPROP Database, 2005)), it was classified into Category 1.