## **GHS Classification**

ID421

## S-4-phenoxybutyl N,N-dimethylthiocarbamate

CAS 62850-32-2 Physical Hazards

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	-	_	-	Containing no chemical groups with explosive properties
2	Flammable gases	Not applicable	-	-	_	Classified as "solid" according to GHS definition
_	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	_	-	_	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 oxygen (but not fluorine and chlorine), with the oxygen bound to carbon and hydrogen (but not to other elements)
15	Organic peroxides	Not applicable	1	_	-	Organic compounds containing no "-O-O-" structure
16	Corrosive to metals	Classification not possible	-	-	-	Classification not possible due to lack of data on the substances with melting points of <55degC (melting point: 39.5degC (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 1,150mg/kg (Agricultural Chemical Registration Data (1985)).
1	Acute toxicity (dermal)	Category 5	_	Warning	May be harmful in contact with skin	Based on the rat LD50 (dermal route) value of 2,075mg/kg (Agricultural Chemical Registration Data (1985)).
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 dermal study reported the LC50 value of >1.79mg/L (Agricultural Chemical Registration Data (1985)).
2	Skin corrosion / irritation	Not classified	-	_	_	Based on no evidence of irritation observed in rabbit skin irritation tests (Agricultural Chemical Registration Data (1985)).
3	Serious eye damage / eye irritation	Not classified	_	_	_	Based on no evidence of irritation observed in rabbit eye irritation tests (Agricultural Chemical Registration Data (1985)).
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 Maximization method (Agricultural Chemical Registration Data (1985)).
5	Germ cell mutagenicity	Category 2	Health hazard	Warning	Suspected of causing genetic defects	Based on positive data in in vitro chromosome aberration tests (Agricultural Chemical Registration Data (1989)) and in vivo micronucleus tests on mouse red blood cells (Agricultural Chemical Registration Data (1994)), though in vitro reverse mutation tests showed negative (Agricultural Chemical Registration Data (1985)).
6	Carcinogenicity	Not classified	_	_	-	There was no treatment-related increase in tumor incidence observed in rat and mouse carcinogenicity studies (Agricultural Chemical Registration Data (1985)).
7	Toxic to reproduction	Not classified	-	-	-	Based on no evidence of adverse effects on parental reproduction and offspring development observed in rat 3-generation reproduction studies and rat/rabbit teratogenicity studies (Agricultural Chemical Registration Data (1985, 1988)).

	Specific target organs/systemic		Health hazard	Warning		Based on the evidence from animal studies including " reduced locomotor activity," "ataxic gait," "insensitiveness to contact or to pain," "muscle
	toxicity following single exposure	Category 2 (systemic			organs (systemic	weakness," "prone position," "lateral position," "reduced respiration rate," "lacrimation," and "dyspnea" (Agricultural Chemical Registration Data
	, , , ,	toxicity)			toxicity)	(1985)). No target organs were identified from these findings. These effects were observed at dosing levels within the guidance value ranges for
						Category 2.
9	Specific target organs/systemic		Health hazard	Warning	May cause damage to	Based on the evidence from animal studies including "increased liver weights," and "thickening of inner membrane of intrahepatic portal vein
	toxicity following repeated	Category 2 (liver)			organs through	branches" (Agricultural Chemical Registration Data (1985)). These effects were observed at dosing levels within the guidance value ranges for
	exposure				prolonged or repeated	Category 2.
					exposure (liver)	
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=0.0903mg/L of the fish (Carp) (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=3.28(PHYSPROP Database, 2005)), since there was no rapidly degrading (BIOWIN), it was classified into Category 1.		