## **GHS Classification**

ID423

## S-benzyl N-(1,2-dimethylpropyl)-N-ethylthiocarbamate Date Classified: Dec. 18, 2006 (Environmental Hazards: Mar. 31, 2006)

CAS 85785-20-2 Physical Hazards

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

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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	I	_	_	Classified as "liquid" according to GHS definition
_	Flammable aerosols	Not applicable	-	_	_	Not aerosol products
4	Oxidizing gases	Not applicable	I	_	_	Classified as "liquid" according to GHS definition
5	Gases under pressure	Not applicable	-	_	_	Classified as "liquid" according to GHS definition
6	Flammable liquids	Classification not possible	ı	_	_	Classification not possible due to lack of data
7	Flammable solids	Not applicable	-	_	_	Classified as "liquid" according to GHS definition
)	Self-reactive substances and mixtures	Not applicable	ı	_	_	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	ı	_	_	Classified as "liquid" according to GHS definition
11	Self-heating substances and mixtures	Classification not possible	I	_	_	Test method applicable to liquid substances are not available (test temperature: 140degC).
12	Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	1	_	_	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 oxygen (but not fluorine and chlorine), with the 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	ı	_	_	Organic compounds containing no "-0-0-" structure
16	Corrosive to metals	Classification not possible	_	-	-	Classification not possible due to lack of data

## Health Hazards

Haz	ard 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 3,700mg/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 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	-	-	-	Classification cannot be determined, though the available rat dermal study reported the LC50 value of >4.06mg/L (Agricultural Chemical Registration Data (1984)).
2	Skin corrosion / irritation	Classification not possible	-	-	_	No data available
3	Serious eye damage / eye irritation	Not classified	_	_	_	In the available rabbit eye irritation tests, mild irritation was noted 1 hour after instillation with a score of 1.0. All effects were fully reversed within 24 hours (Agricultural Chemical Registration Data (1987)).
4	Respiratory/skin sensitization	Respiratory sensitization: Classification not possible Skin sensitization: Classification not possible	(Respiratory sensitization) — (Skin sensitization) —	(Respiratory sensitization) — (Skin sensitization) —	(Respiratory sensitization)— (Skin sensitization)—	Respiratory sensitization: No data available Skin sensitization: No data available
5	Germ cell mutagenicity	Classification not possible	_	_	-	Based on the absence of data in in vivo studies, though no evidence of mutagenicity observed in any of in vitro studies (reverse mutation tests, chromosome aberration tests and DNA repair tests) (Agricultural Chemical Registration Data (1985)).
6	Carcinogenicity	Not classified	-	_	-	There was no treatment-related increase in tumor incidence observed in 2-year (rats) and 18-month (mice) carcinogenicity studies (Agricultural Chemical Registration Data (1987)).
7	Toxic to reproduction	Category 2	Health hazard	Warning	Suspected of damaging fertility or the unborn child	Based on the evidence of delayed ossification of cervical bones/sternums without teratogenic effects, and an increase in the number of dead embryos at parentally toxic doses observed in teratogenicity studies in rats and rabbits (Agricultural Chemical Registration Data (1986, 1987)).
8	Specific target organs/systemic toxicity following single exposure	Classification not possible	_	ı	-	Insufficient data available.

		Category 2 (blood system, liver, kidneys, bone marrow)	Health hazard	Ü	organs through	Based on the evidence from animal studies including "decreased RBC/hemoglobin/hematocrit," "an increased platelet count," "hepatocellular swelling," "eosinophilic hepatocytes," "renal tubular degeneration/pigmentation," and "hypoplastic bone marrow" (Agricultural Chemical Registration Data (1986)). These effects were observed at dosing levels within the guidance value ranges for Category 2.
1	Aspiration hazard	Classification not possible	_	ı	_	No data available

## **Environmental Hazards**

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1	Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification		
Ī	11 Hazardous to the aquatic environment (acute)	Category 1	Environment	Warning	Very toxic to aquatic life	It was classified into Category 1 from 0-72 hours ErC50=0.066mg/L of the algae (Green Algae) (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=4.6 (PHYSPROP Database, 2005)), it was classified into Category 1.		