GHS Classification

ID475

N-tert-butyl-N'-(4-ethylbenzoyl)-3,5-dimethylbenzohydrazide Date Classified: Dec. 18, 2006 (Environmental Hazards: Mar. 31, 2006)

CAS 112410-23-8 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 classified	-	_	-	Being a hydrazine compound, the substance contains chemical groups with explosive properties, but its oxygen budget is calculated at -254, that is "Not classified."	
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	ı	-	-	Classified as "solid" according to GHS definition	
5	Gases under pressure	Not applicable	ı	ı	_	Classified as "solid" according to GHS definition	
6	Flammable liquids	Not applicable	ı	ı	_	Classified as "solid" according to GHS definition	
7	Flammable solids	Classification not possible	1	ı	_	Classification not possible due to lack of data	
8	Self-reactive substances and mixtures	Classification not possible	ı	1	_	Classification not possible due to lack of data, though being a hydrazine compound containing chemical groups with explosive properties.	
9	Pyrophoric liquids	Not applicable	ı	ı	_	Classified as "solid" according to GHS definition	
10	Pyrophoric solids	Not classified	-	1	_	Considered non-pyrophoric when in contact with air at ordinary temperatures since the substance is stable to heat (up to 170degC) (Agricultural Chemical Registration Data)	
11	Self-heating substances and mixtures	Not classified	1	ı	-	Stable to heat (up to 170degC) (Agricultural Chemical Registration Data)	
12	Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	I	1	_	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	1	1	_	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	ı	-	_	Organic compounds containing no "-0-0-" structure	
16	Corrosive to metals	Classification not possible	-	_	_	Test methods applicable to solid substances with melting point of >55degC are not available (melting point: 192.3degC (Agricultural Chemical Registration Data)).	

Health Hazards

ard class	Classification	symbol	a face and account		
		Syllibol	signal word	hazard statement	
Acute toxicity (oral)	Not classified	_	-	_	Based on the rat LD50 (oral route) value of >5,000mg/kg (Agricultural Chemical Registration Data (1993)).
Acute toxicity (dermal)	Not classified	-	-	-	Based on the rat LD50 (dermal route) value of >5,000mg/kg (Agricultural Chemical Registration Data (1993)).
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.
Acute toxicity (inhalation:	Classification not possible	-	_	-	No data available
Acute toxicity (inhalation: dust, mist)	Classification not possible	_	-	-	Classification cannot be determined, though the available rat inhalation study reported the LC50 value of >0.43mg/L (4 hours) (Agricultural Chemical Registration Data (1993)).
Skin corrosion / irritation	Not classified	-	_	_	Based on no evidence of irritation observed in rabbit skin irritation tests (Agricultural Chemical Registration Data (1993)).
Serious eye damage / eye irritation	Not classified	-	_	-	Based on no evidence of irritation observed in rabbit eye irritation tests (Agricultural Chemical Registration Data (1993)).
Respiratory/skin sensitization	Respiratory sensitization: Classification not possible Skin sensitization: Not classified	(Skin sensitization)-	(Skin	sensitization)—	Respiratory sensitization: No data available Skin sensitization: No skin sensitizing potential was found in guinea pig sensitization tests employing the Buehler method (Agricultural Chemical Registration Data (1993)).
Germ cell mutagenicity	Not classified	-	-	-	Based on negative data in in vitro reverse mutation tests, in vitro chromosome aberration tests (Agricultural Chemical Registration Data (1993)) and in vivo chromosome aberration tests on rat bone marrow cells (Agricultural Chemical Registration Data (1993)).
Carcinogenicity	Not classified	_	_	_	There was no treatment-related increase in tumor incidence observed in rat and mouse carcinogenicity studies (Agricultural Chemical Registration Data (1993)).
Toxic to reproduction	Not classified	-	-	_	Based on no evidence of adverse effects on reproduction or offspring development observed in rat reproduction studies and rat/rabbit teratogenicity studies (Agricultural Chemical Registration Data (1993)).
	Acute toxicity (inhalation: gas) Acute toxicity (inhalation: dust, mist) Skin corrosion / irritation Serious eye damage / eye irritation Respiratory/skin sensitization Germ cell mutagenicity Carcinogenicity	Acute toxicity (inhalation: gas) Acute toxicity (inhalation: Classification not possible Acute toxicity (inhalation: dust, mist) Skin corrosion / irritation Serious eye damage / eye irritation Respiratory/skin sensitization Respiratory/skin sensitization Germ cell mutagenicity Not classified Not classified Not classified Carcinogenicity Not classified	Acute toxicity (inhalation: gas) Acute toxicity (inhalation: Classification not possible Acute toxicity (inhalation: dust, mist) Skin corrosion / irritation Not classified	Acute toxicity (inhalation: gas) Not applicable ———————————————————————————————————	Acute toxicity (inhalation: gas) Not applicable — — — — — — — — — — — — — — — — — — —

	8 Specific target organs/systemic	Classification not possible	_	_	_	Insufficient data available.
	toxicity following single exposure	Glassification not possible				
	9 Specific target organs/systemic		Health hazard	Warning		Based on the evidence from animal studies including "decreased RBC," "increased total bilirubin level in the blood," and "increased pigmentation of
	toxicity following repeated	Category 2 (blood system,				Kupffer cells" (Agricultural Chemical Registration Data (1993)). These effects were observed at dosing levels within the guidance value ranges for
	exposure	liver)			prolonged or repeated	Category 2.
					exposure (blood system,	
1	O Aspiration hazard	Classification not possible	_	-	-	No data available

Environmental Hazards

H	azard 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	denied from 48 hours EC50=3.8mg/L of the crustacea (Daphnia magna) (Agricultural Chemical Registration Data (1992)), it was classified into Catalogue 1		
	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=4.25 (PHYSPROP Database, 2005)), it was classified into Category 1.		