GHS Classification

ID460 CAS 1014-70-6 Physical Hazards

2,4-bis(ethylamino)-6-methylthio-1,3,5-triazine

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
က	Flammable aerosols	Not applicable	-	-	-	Not aerosol products
4	1 Oxidizing gases	Not applicable	_	1	-	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	_	1	-	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	-	I	_	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	Classification not possible	-	-	-	Classification not possible due to lack of data
11	Self-heating substances and mixtures	Classification not possible	-	-	_	Test method applicable to liquid substances are not available (melting point: 79.5-80.0degC (Agricultural Chemical Registration Data), test temperature: 140degC).
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	1 Oxidizing solids	Not applicable	-	-	-	Organic compounds containing no oxygen, fluorine or chlorine
15	Organic peroxides	Not applicable	-	-	-	Organic compounds containing no "-O-O-" structure
16	Corrosive to metals	Classification not possible	-	_	_	Test methods applicable to solid substances with melting point of >55degC are not available (melting point: 79.5-80.0degC (Agricultural Chemical Registration Data)).

Health Hazards

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Haz	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 780mg/kg (Agricultural Chemical Registration Data (1969)).		
1	Acute toxicity (dermal)	Not classified	-	-	-	Based on the rat LD50 (dermal route) value of >3,100mg/kg, together with the absence of mortality (Agricultural Chemical Registration Data (1980)).		
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 inhalation study reported the LC50 value of >4.88mg/L (4 hours) (Agricultural Chemical Registration Data (1988)).		
2	Skin corrosion / irritation	Category 3	_	Warning	Causes mild skin irritation	Based on the evidence of mild 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 (1986)).		
5	Germ cell mutagenicity	Not classified	_	_	_	Based on negative data in in vitro reverse mutation tests and chromosome aberration tests in vivo in mice and hamsters (Agricultural Chemical Registration Data (1991, 1996)), though in vitro chromosome aberration tests showed positive (Agricultural Chemical Registration Data (1987)).		
6	Carcinogenicity	Not classified	-	-	-	There was no treatment-related increase in tumor incidence observed in rat carcinogenicity studies (Agricultural Chemical Registration Data (1987)).		
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 (1987)).		
8	Specific target organs/systemic toxicity following single exposure	Category 2 (nervous system)	Health hazard	Warning	May cause damage to organs (nervous system)	Based on the evidence from animal studies including "piloerection," "crouching," "mild numbness of the limbs," "staggering gait," and "vomiting" (Agricultural Chemical Registration Data (1969)). These effects were observed at dosing levels within the guidance value ranges for Category 2.		

		Category 2 (gastrointestinal tract, liver, testes, kidneys)	Health hazard	J	organs through	Based on the evidence from animal studies including "edematous thickening of the intestinal wall," "cirrhosis," "hepatocellular atrophy," "sperm atrophy or spermatogenesis inhibition," and "chronic nephrosis" (Agricultural Chemical Registration Data (1987)). These effects were observed at dosing levels within the guidance value ranges for Category 2.
1	Aspiration hazard	Classification not possible	_	ı	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 72 hours ErC50=0.028mg/L of the algae (Selenastrum) (MOE Eco-Toxicity Tests of Chemicals, 1997).		
	11 Hazardous to the aquatic environment (chronic)	Category 1	Environment			Although acute toxicity is Category 1 and bio-accumulation is low (log Kow=2.8(PHYSPROP Database, 2005)), since there was no rapidly degrading (BIOWIN), it was classified into Category 1.		