GHS Classification

ID422

N,N-Dimethyldodecylamine N-oxide

Date Classified: Jun. 20, 2006 (Environmental Hazards: Jan. 25, 2007)

CAS 1643-20-5 Physical Hazards

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

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H	laza	rd class	Classification	symbol	signal word	hazard statement	Rational for the classification
	1	Explosives	Not classified	-	_	_	Not classified as explosives with its oxygen budget calculated at -296, though the substance is an N-oxide containing chemical groups with explosive properties
	2	Flammable gases	Not applicable	_	_	_	Classified as "solid" according to GHS definition
	_		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	_	_	_	No data available
	_	Self-reactive substances and mixtures	Classification not possible	-	_	_	Classification not possible due to lack of data, though the substance is an N-oxide containing chemical groups with explosive properties
Г	9	Pyrophoric liquids	Not applicable	_	_	-	Classified as "solid" according to GHS definition
	10	Pyrophoric solids	Classification not possible	-	_	-	No data available
		Self-heating substances and mixtures	Classification not possible	-	_	_	Test methods applicable to liquid substances are not available (melting point: 53degC (Howard, 1997), test temperature: 140degC).
		Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	-	ı	-	Containing no metalls or metalloids (B, Si, P, Ge, As, Se, Sn, Sb, Te, Bi, Po, At)
Г	13	Oxidizing liquids	Not applicable	_	-	-	Classified as "solid" according to GHS definition
	14	Oxidizing solids	Classification not possible	-	_	_	Usassification not possible due to lack or data, though being organic compounds containing oxygen bound to elements other than carbon and
	15	Organic peroxides	Not applicable	-	_	_	Organic compounds containing no "-0-0-" structure
Г	16	Corrosive to metals	Classification not possible	-	-	-	Test methods applicable to solid substances are not available.

Health Hazards

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Haz	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification		
1	Acute toxicity (oral)	Not classified	-	_	-	Based on the rat LD50 (oral route) value of >7,450mg/kg (CERI Hazard Data 2001-26 (2002)).		
1	Acute toxicity (dermal)	Classification not possible	-	_	-	No data available		
1	Acute toxicity (inhalation: gas)	Not applicable	-	_	_	Due to the fact that the substance is "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	_	_	-	No data available		
2	Skin corrosion / irritation	Category 2	Exclamation mark	Warning		Based on the description in the report on rabbit skin irritation tests (CERI Hazard Data 2001–26 (2002)): "24-hour application induced severe irritation of the skin."		
3	Serious eye damage / eye irritation	Category 2A	Exclamation mark	Warning	Causes serious eye irritation	Based on the description in the report on rabbit eye irritation tests (CERI Hazard Data 2001–26 (2002)): "severely irritating to the eye."		
4	Respiratory/skin sensitization	Respiratory sensitization: Classification not possible Skin sensitization: Classification not possible	(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 on multi-generation mutagenicity tests, germ/somatic cell mutagenicity tests in vivo and germ/somatic cell genotoxicity tests in vivo, and no positive data on mutagenicity tests in vitro (several indices), described in CERI Hazard Data 2001–26 (2002).		
6	Carcinogenicity	Classification not possible	-	-	-	Insufficient data available		
7	Toxic to reproduction	Classification not possible	-	_	-	No data available		
8	Specific target organs/systemic toxicity following single exposure	Classification not possible	_	_	_	No data available		
	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	_	_		No data available		
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		It was classified into Category 1 from 24-72 hours ErC50=0.081mg/L of the algae (Selenastrum) (CERI/NITE Hazard Assessment Report (preliminary version), 2006).

11 Hazardous to the aquatic	Classification not possible	-	-		Although acute toxicity was Category 1 and there was rapidly degrading (the decomposition by BOD: 63%(Existing Chemical Safety Inspections
environment (chronic)					Data)), since there were no credible data on the bio-accumulation, classification is not possible.