## **GHS Classification**

ID223

## diindium trioxide

CAS 1312-43-2

Date Classified: Apr. 20, 2006 (Environmental Hazards: Mar. 31, 2006)

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

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Haza	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	Explosives	Not applicable	-	ı	_	There are no chemical groups associated with explosive properties present in the molecules.
2	Flammable gases	Not applicable	ı	ı	_	Solid (GHS definition)
3	Flammable aerosols	Not applicable	-	-	_	Not aerosol products
4	Oxidizing gases	Not applicable	ı	ı	_	Solid (GHS definition)
5	Gases under pressure	Not applicable	ı	1	_	Solid (GHS definition)
6	Flammable liquids	Not applicable	ı	ı	_	Solid (GHS definition)
7	Flammable solids	Classification not possible	-	-	-	No data available
_	Self-reactive substances and mixtures	Not applicable	-	-	-	There are no chemical groups associated with explosive or self-reactive properties present in the molecule.
9	Pyrophoric liquids	Not applicable	-	ı	-	Solid (GHS definition)
10	Pyrophoric solids	Classification not possible	-	-	-	No data available
11	Self-heating substances and mixtures	Classification not possible	-	-	-	No data available
12	Substances and mixtures, which in contact with water, emit flammable gases	Classification not possible	-	-	-	No data available
13	Oxidizing liquids	Not applicable	-	ı	-	Solid (GHS definition)
	Oxidizing solids	Classification not possible	-	ı	_	No data available
15	Organic peroxides	Not applicable	-	-	-	Inorganic substance
16	Corrosive to metals	Classification not	-	-	-	Test methods applicable to solid substances are not available.

## **Health Hazards**

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
	Not classified	-	-		SPECIES: ENDPOINT: LD50 VALUE: >10g/kg REFERENCE SOURCE: SAX (4th, 2001)
1 Acute toxicity (dermal)	Classification not possible	-	-	-	No data available
1 Acute toxicity (inhalation: gas)	Not applicable	1	1	_	Solid (GHS definition)
1 Acute toxicity (inhalation: vapour)	Classification not possible	-	-	-	No data available
1 Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	-	Insufficient data available
2 Skin corrosion / irritation	Classification not possible	-	-	-	No data available
3 Serious eye damage / eye irritation	Classification not possible	-	-	-	No data available
4 Respiratory/skin sensitization	Classification not possible	-	1	-	No data available
5 Germ cell mutagenicity	Classification not possible	1	ı	-	No data available
6 Carcinogenicity	Classification not possible	-	- 1	-	No data available
7 Toxic to reproduction	Classification not possible	-	1	-	No data available
8 Specific target organs/systemic toxicity following single exposure	Classification not possible	-	-	-	No data available.

		Category 1 (lung, frame, gastrointestinal tract)	Health hazard	Danger	organs (lung, frame, gastrointestinal tract) through prolonged or repeated exposure	"The indium and its compound are set up TLV-TWA owing to the influence to the skelton and gastrointestinal system and the hazardous property especially by the inhalation to lungs (ACGIH (2001))", "There is a case report of the pulmonary fibrosis by the indium tin oxide of two examples to human." (J Occup Health (2003) and Eur Respr J. (2005)", "An indium tin oxide consists of indium oxides and tinoxide"(J Occup Health (2003)", and "Since an indium tin oxide has High a indium content (indium 74%, 8% of tin), the major cause of the observed lung toxicity is indium probably (Eur Respr J. (2005))". Based on these results it was classified into Category 1 (lungs, skeleton,digestive tracts) due to these results. [special notes] Since indium was recorded as indium and its compound by ACGIH and also industrial safety and health laws, indium oxide was evaluated and classified as an indium analogue.
1	0 Aspiration hazard	Classification not possible	-	-	-	No data available

## **Environmental Hazards**

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Ha	azard class	Classification	symbol	signal word	hazard statement	Rational for the classification	
	11 Hazardous to the aquatic environment (acute)	Classification not possible	-	-	-	No data available	
	11 Hazardous to the aquatic environment (chronic)	Classification not possible	-	-	-	No data available.	