## **GHS Classification**

ID309

Barium chloride, dihydrate

Not applicable

Not applicable

Classification not possible

Classification not possible

CAS 10326-27-9

Date Classified: Aug. 22, 2006 (Environmental Hazards: Mar. 31, 2006)

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

Physical Hazards

Hazard class Rational for the classification symbol signal word hazard statement 1 Explosives Not applicable Containing no chemical groups with explosive properties Flammable gases Not applicable Classified as "solid" according to GHS definition Flammable aerosols Not applicable Not aerosol products 4 Oxidizing gases Not applicable Classified as "solid" according to GHS definition 5 Gases under pressure Classified as "solid" according to GHS definition Not applicable 6 Flammable liquids Not applicable Classified as "solid" according to GHS definition 7 Flammable solids Not classified Non-flammable (ICSC, 2004) 8 Self-reactive substances and Not applicable Containing no chemical groups with explosive or self-reactive properties mixtures 9 Pyrophoric liquids Classified as "solid" according to GHS definition Not applicable 10 Pyrophoric solids Not classified Non-flammable (ICSC, 2004) 11 Self-heating substances and Non-flammable (ICSC, 2004) Not classified mixtures 12 Substances and mixtures, which Not classified Stable to water (water solubility: 37.5g/100mL (26degC), ICSC (2004)) in contact with water, emit

Classified as "solid" according to GHS definition

Test methods applicable to solid substances are not available

Not organic compounds

Classification not possible due to lack of data, though being inorganic compounds containing chlorine

## **Health Hazards**

flammable gases
13 Oxidizing liquids

14 Oxidizing solids

15 Organic peroxides

16 Corrosive to metals

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Classification not possible	-	-	-	No data available
1 Acute toxicity (dermal)	Classification not possible	-	_	1	No data available
1 Acute toxicity (inhalation: gas)	Not applicable	_	_	ı	Due to the fact that the substance is "solid" according to the GHS definition.
1 Acute toxicity (inhalation:	Classification not possible	_	_	ı	No data available
<ol> <li>Acute toxicity (inhalation: dust, mist)</li> </ol>	Classification not possible	_	_	ı	No data available
2 Skin corrosion / irritation	Classification not possible	_	_	I	ICSC (2002) presents evidence of "reddening," suggesting the skin irritation potential of the substance. However, classification is not possible due to lack of study detail.
3 Serious eye damage / eye irritation	Classification not possible	_	_	-	ICSC (2002) presents evidence of "reddening," suggesting the eye irritation potential of the substance. However, classification is not possible due to lack of study detail.
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	_	-	ı	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 NTP DB (Access on May 2006).
6 Carcinogenicity	Classification not possible	_	_	1	Classification not possible based on expert judgment in the absence of existing classification, though CICAD 33 (2001) provides some data on toxicity studies.
7 Toxic to reproduction	Classification not possible	-	_	-	Insufficient data available
Specific target organs/systemic toxicity following single exposure	Category 1 (cardiovascular system, muscle) Category 2 (nervous system) Category 3 (respiratory tract irritation)	Health hazard	Ü	Causes damage to organs (cardiovascular system, muscle) May cause damage to organs (nervous system) (Respiratory tract irritation) May cause respiratory irritation	Based on the human evidence: "Intentional or accidental ingestion of barium compounds causes gastroenteritis (vomiting, diarrhea, abdominal pain), hypokalemia, cardiac arrhythmias and skeletal muscle paralysis" (CIGAD 33 (2001)), "irritates the eye, skin, respiratory tract; may adversely affect nervous system; may cause hypokalemia; may cause heart/muscle disorder; may lead to death" (IGSC (J) (1999)). Since the priority rating of ICSC (J) (1999) is 2, the effects are classified into Category 1 (cardiovascular system, muscle), Category 2 (nervous system) and Category 3 (respiratory tract irritation).
9 Specific target organs/systemic toxicity following repeated exposure	Classification not possible	_	_	_	Insufficient data available
10 Aspiration hazard	Classification not possible	_	_	_	No data available

## **Environmental Hazards**

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Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification				
11 Hazardous to the aquatic environment (acute)	Classification not possible	-	-	-	Classification not possible due to lack of data				
11 Hazardous to the aquatic environment (chronic)	Classification not possible	-	-	-	Classification not possible due to lack of data				