# **GHS** Classification

ID175 CAS 7440–39–3 Physical Hazards

barium

### Date Classified: Jul. 24, 2006 (Environmental Hazards: Mar. 31, 2006)

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

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Explosives	Not applicable	-	-	-	There are no chemical groups associated with explosive properties present in the molecules.
2 Flammable gases	Not applicable	-	-	-	Solid (GHS definition)
3 Flammable aerosols	Not applicable	-	-	-	Not aerosol products
4 Oxidizing gases	Not applicable	-	-	-	Solid (GHS definition)
5 Gases under pressure	Not applicable	-	-	-	Solid (GHS definition)
6 Flammable liquids	Not applicable	-	-	-	Solid (GHS definition)
7 Flammable solids	Not classified	-	-	-	UNRTDG Class: 4.3
8 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	-	-	-	Solid (GHS definition)
10 Pyrophoric solids	Not classified	-	-	-	UNRTDG Class: 4.3
11 Self-heating substances and mixtures	Not classified	-	-	-	UNRTDG Class: 4.3
12 Substances and mixtures, which in contact with water, emit flammable gases	Category 2	Flame	Danger	In contact with water releases flammable gases	UNRTDG Class: 4.3; PG II
13 Oxidizing liquids	Not applicable	-	-	-	Solid (GHS definition)
14 Oxidizing solids	Not classified	-	-	-	Reducing substance (ICSC(J) (1999))
15 Organic peroxides	Not applicable	-	-	-	Containing no -0-0- structure
16 Corrosive to metals	Not classified	-	-	-	UNRTDG Class: 4.3

# Health Hazards

Hazard class		Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (ora	-	Classification not possible	-	-	-	No data available
1 Acute toxicity (de	,	Classification not possible	-	-	-	No data available
<ol> <li>Acute toxicity (inh</li> </ol>	halation: gas)	Not applicable	-	-	-	Solid (GHS definition)
1 Acute toxicity (inh vapour)		Classification not possible	-	-	-	No data available
1 Acute toxicity (inh mist)		Classification not possible	-	-		No data available
2 Skin corrosion / ir	rritation	Category 2	Exclamation mark	Warning		It was classified as Category 2 from descriptions that the skin is stimulated (ICSC (J) (1999) and HSFS (2000)).
3 Serious eye dama irritation		Category 2A-2B	Exclamation mark	Warning	Causes serious eye irritation	It was set as Category 2A-2B from description that the eye was stimulated in ICSC (J), (1999), and HSFS (2000).
4 Respiratory/skin s		Respiratory sensitization: Classification not possible; Skin sensitization: Classification not	-	-	-	No data available
5 Germ cell mutage		Classification not possible	-	-	-	No data available
6 Carcinogenicity		Not classified	-	-		It is classified into A4 (ACGIH 7th, 2001) according to ACGIH and is classified into CBD (inh) and NL (orl) (1996) according to EPA (IRIS, 2005). So it was set as the outside of Category.
7 Toxic to reproduc		Classification not possible	-	-	-	No data available

		Category 3 (respiratory tract irritation)	Exclamation mark	Warning		It was classified into Category 3 (respiratory tracts stimulativeness) due to the description that the it irritates respiratory trac in ICSC (J) (1999), and HSFS (2000).
9	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	-	-	Classification not possible due to lack of data
10	-	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 3	-	-	Harmful to aquatic life	It was classified into Category 3 from 48-hour LC50=14.5mg/L of Crustacea (Daphnia magna), and others (EHC107, 1990).
11 Hazardous to the aquatic environment (chronic)	Category 3	-		life with long lasting	Classified into Category 3, since acute toxicity was Category 3, and behavior in water and bioaccumulative potential are unknown.