GHS Classification

ID1330 CAS 1304-28-5 Physical Hazards

barium oxide, obtained by calcining witherite

Date Classified: Oct. 23, 2006 (Environmental Hazards: Mar. 31, 2006)

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

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Haz	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	_	-	-	Solid (GHS definition)
3	Flammable aerosols	Not applicable	-	ı	_	Not aerosol products
4	Oxidizing gases	Not applicable	_	-	-	Solid (GHS definition)
5	Gases under pressure	Not applicable	-	ı	_	Solid (GHS definition)
6	Flammable liquids	Not applicable	_	-	-	Solid (GHS definition)
7	Flammable solids	Not classified	-	-	-	Nonflammable (ICSC (J), 1999). (However, since this product may react with other substances and burn, cautions are required.)
8	Self-reactive substances and mixtures	Not applicable	-	ı	-	There are no chemical groups associated with explosive or self-reactive properties present in the molecule.
9	Pyrophoric liquids	Not applicable	_	1	_	Solid (GHS definition)
10	Pyrophoric solids	Not classified	_	-	-	Non-combustible (ICSC (J), 1999)
11	Self-heating substances and mixtures	Not classified	_	-	-	Not combustible (ICSC(J) (1999))
.1	Substances and mixtures, which in contact with water, emit flammable gases	Not classified	-	ı	-	UNRTDG is classified into 6.1 and III according to the U.N. number (1884) peculiar to a substance. Since 4.3 which indicates a water reaction inflammability chemistry article was not attached, it carried out the outside of Category. (Since a high fevers is emitted when the this product reacts with water and barium hydroxide is generated, extreme cares are required.)
13	Oxidizing liquids	Not applicable	_	-	-	Solid (GHS definition)
14	Oxidizing solids	Classification not possible	-	-	-	No data available
15	Organic peroxides	Not applicable	-	ı	_	Inorganic compound
16	Corrosive to metals	Classification not possible	-	-	-	Test methods applicable to solid substances are not available.

Health Hazards

Haz	ard 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	-	ı	-	No data available
1	Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Solid (GHS definition)
1	Acute toxicity (inhalation: vapour)	Classification not possible	-	ı	-	No data available
1	Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	_	No data available
2	Skin corrosion / irritation	Category 3	-	Warning	Causes mild skin irritation	It was set as category 3 from the description that there is a stimulus, redness, and a pain to the human skin (ICSC(J), 1999; HSFS, 2002), and that it stimulates the skin as water-soluble barium compounds (ACGIH-TLV, 2005).
3	Serious eye damage / eye irritation	Category 2B	-	Warning		It was set as Category 2B from description that there are stimulus, redness and pain to the human eye (ICSC(J), 1999; HSFS, 2002), and the eye is stimulated as water-soluble barium compounds (ACGIH-TLV, 2005).
4	Respiratory/skin sensitization	Respiratory sensitization: Classification not possible; Skin sensitization: Classification not	sensitization)-; (Skin	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	No data available
5	Germ cell mutagenicity	Classification not possible	-	-	_	No data available
6	Carcinogenicity	Classification not possible	-	-	-	No data available
7	Toxic to reproduction	Classification not possible	-	-	-	No data available

8		Category 1 (digestive system, heart, muscles);	Health hazard	Danger	respiratory irritation	It was considered as Category 1 (a digestive systems, the heart, muscles), Category 2 (nervous system), and Category 3 (respiratory irritant) based on the description that gastrointestinal irritation, muscle disorder (ACGIH-TLV, 2005), gastroenteritis, hypokalemia, high blood pressure, arrhythmia, and skeletal muscle paralysis (CICAD 33, 2001) are caused, and it stimulates the human respiratory tract, affects a nervous system, causes hypokalemia and may produce heart damages / muscle disorders as a water-soluble barium compounds (ICSC (J), 1999).
9	Specific target organs/systemic toxicity following repeated exposure	Category 1 (respiratory organs)	Health hazard	Danger		It was classified into Category 1(respiratory systems) based on description of bronchitis (CICAD 33, 2001) and of stimulation to lungs in repeated exposure (HSFS, 2002).
10	•	Classification not possible	-	-		No data available

Environmental Hazards

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H	azard class	Classification	symbol	signal word	hazard statement	Rational for the classification		
	any iran mant (aguta)	Classification not possible	-	-	-	No data available		
	anvironment (abronia)	Classification not possible	-	-	-	No data available.		