

## GHS Classification

**ID811**

**Calcium dihydroxide**

**CAS 1305-62-0**

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

**Physical Hazards**

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	-	-	-	Non-combustible (ICSC (1997), Weiss (2nd, 1985))
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	-	-	-	Non-combustible (ICSC, 1997; Weiss, 2nd, 1985)
11 Self-heating substances and mixtures	Not classified	-	-	-	Non-combustible (ICSC, 1997; Weiss, 2nd, 1985)
12 Substances and mixtures, which in contact with water, emit flammable gases	Not classified	-	-	-	Stable to wate. Not react with water. (Weiss, 2nd, 1985)
13 Oxidizing liquids	Not applicable	-	-	-	Solid (GHS definition)
14 Oxidizing solids	Classification not possible	-	-	-	Classification not possible due to lack of data, though containing oxygen.
15 Organic peroxides	Not applicable	-	-	-	Inorganic compound
16 Corrosive to metals	Classification not possible	-	-	-	The test methods suitable for a solids material are not established. (It is classified into 8 and III according to UNRTDG of Generic or N.O.S.entry. There is a statement in ICSC (1997) that it corrodes many metals under the presence of the water and hydrogen gas is produced).

**Health Hazards**

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Not classified	-	-	-	Not classified because of SPECIES: Rat; ENDPOINT: LD50; VALUE: 7340mg/kg; REFERENCE SOURCE: ACGIH (2001); HSDB (2005)
1 Acute toxicity (dermal)	Classification not possible	-	-	-	No data available
1 Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Solid (GHS definition)
1 Acute toxicity (inhalation: vapour)	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	Causes skin irritation	Based on descriptions that it has moderate stimulativeness on all body surface exposure including eyes and airways (ACGIH, 7th, 2001) and that it indicates moderate, severe, and a corrosive stimulation on human skin (IUCLID, 2000; HSDB, 2005; ICSC (J) 1997; SITTING, 4th, 2002; and HSFS, 2005), it was classified as Category 2.
3 Serious eye damage / eye irritation	Category 1	Corrosion	Danger	Causes serious eye damage	Based on the description that moderate, severe, and corrosive irritations are indicated to the eyes in humans (ACGIH, 7th, 2001; IUCLID, 2000; HSDB, 2005; ICSC (J) 1997; SITTING, 4th, 2002; HSFS, 2005), and the deascription that corrosive irritations are indicated to the rabbits (IUCLID, 2000), it was set as Category 1.
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)-	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	Specific target organs/systemic toxicity following single exposure	Category 1 (respiratory)	Health hazard	Danger	Cause damage to organs (respiratory)	Classified into Category 1 (respiratory system) based on the descriptions (ACGIH, 7th, 2001; HSDB, 2005; ICSC (J), 1997; SITTIG, 4th, 2002; HSFS, 2005 ) that it stimulates human respiratory organ and respiratory tract to induce lung edema.
9	Specific target organs/systemic toxicity following repeated exposure	Category 2 (lung)	Health hazard	Warning	may cause damage to organs (lung) through prolonged or repeated exposure	It was classified into Category 2 (lungs) since description that says human lung may be risked in Priority 2 (ICSC(J)1997;SITTIG, 4th, 2002).
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)	Classification not possible	-	-	-	Insufficient data available.
11 Hazardous to the aquatic environment (chronic)	Classification not possible	-	-	-	Classification not possible due to lack of data