

## GHS Classification

**ID807**

**Quartz**

**CAS 14808-60-7**

Date Classified: Jul. 24, 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))
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)
11 Self-heating substances and mixtures	Not classified	-	-	-	Not combustible (ICSC (1997))
12 Substances and mixtures, which in contact with water, emit flammable gases	Not classified	-	-	-	Stable to water (the water solubility is obtained)
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 substance
16 Corrosive to metals	Classification not possible	-	-	-	Test methods applicable to solid substances are not available.

### Health Hazards

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Classification not possible	-	-	-	Data suitable for a classification is not found and insufficient, it cannot be classified.
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)	Not applicable	-	-	-	It was a solid hard crystalline material, and the vapor pressure at room temperature was considered to be very low. So it was thought to be outside of classification.
1 Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	-	No data available
2 Skin corrosion / irritation	Classification not possible	-	-	-	No data available
3 Serious eye damage / eye irritation	Classification not possible	-	-	-	There is the statement which indicates eye irritations. But it cannot be classified, since the data which is supported is not found and the data is insufficient.
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	Not classified	-	-	-	Since the mouse marrow micronucleus examination for in vivo mutagenicity was negative (IARC68, 1997; CICAD24, 2000; DFGOT vol.14, 2000), we classified it as Out Of Category. In addition, in the special in vivo test system (measurement of the hprt variation in the lung epithelial cells of the rat which received the endotracheal administration), which is not in the OECD Guidelines, it shows mutation positives and so on (it is possible that it is based on the inflammatory effects), and the test results conflicts in the CICAD24 (2000). It is supposed that evaluation of genetic toxicity has not been fixed yet. Moreover, for in vitro mutagenicity, there was no data of Ames test and there were findings that it showed positive in the chromosome aberration test and it gave negative in micronucleus examination (IARC68, 1997; CICAD24, 2000; DFGOT vol.14, 2000).

6	Carcinogenicity	Category 1A	Health hazard	Danger	May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	IARC68 (1997) is classified into 1, NTP RoC (11th, 2005) is classified into K and industrial hygiene academic recommendation (2005) is classified into 1. It was considered as Category 1A.
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)	IARC68 (1997), SITTING (4th, 2002), and DHP (13th, 2002) have descriptions that its short-term exposure also affects the respiratory system in humans in case of high inhalation concentration although there is much little data compared with repeated exposure. Since IARC68 (1997) is the Priority 1 document, we classified it into Category 1 (respiratory system).
9	Specific target organs/systemic toxicity following repeated exposure	Category 1 (respiratory organs, kidneys)	Health hazard	Danger	causes damage to organs (respiratory organs, kidneys) through prolonged or repeated	In priority 1 document of CICAD24 (2000), IARC68 (1997), DFGOT vol.14 (2000) and ACGIH-TLV (2005), there is description that the respiratory system and the kidney are affected in humans, and it was classified into Category 1 (respiratory system, kidney).
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	-	-	-	No data available
11 Hazardous to the aquatic environment (chronic)	Classification not possible	-	-	-	No data available.