

GHS Classification

ID810

Rock wool

CAS

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 (2000))
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, 2000)
11 Self-heating substances and mixtures	Not classified	-	-	-	Not-combustible (ICSC, 2000)
12 Substances and mixtures, which in contact with water, emit flammable gases	Not classified	-	-	-	Stable to water
13 Oxidizing liquids	Not applicable	-	-	-	Solid (GHS definition)
14 Oxidizing solids	Not classified	-	-	-	Stable oxidizing substance and not oxidize other substances
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	-	-	-	No data available
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 3	-	Warning	Causes mild skin irritation	Itching and irritation, though physical irritation, are caused (EHC 77 (1988)). It was classified as Category 3 by the statements in ACGIH (2001) and HSDB (2005).
3 Serious eye damage / eye irritation	Category 2A	Exclamation mark	Warning	Causes serious eye irritation	Based on the statement that eyes are stimulated by exposure (ACGIH (2001), HSDB (2005)), and are not recovered on Monday after through the weekend (EHC 77 (1988)), it was segmented into Category 2A.
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	-	-	-	Although there is a report of positive results for in vitro Ames test and chromosomal aberration test (IARC (2002)), it is not strongly positive. And there is no report of in vivo examination, it cannot be classified.
6 Carcinogenicity	Not classified	-	-	-	It was considered as the outside of Category since it was changed to the group 3 in IARC in 2002.
7 Toxic to reproduction	Classification not possible	-	-	-	Classification not possible due to lack of data
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 (2001), ATSDR (2004), ICSC (2000), HSDB (2005)) that its inhalation induces respiratory irritation, pain in larynx and pharynx, nasal congestion, bleeding, cough, and wheeze.

9	Specific target organs/systemic toxicity following repeated exposure	Category 1 (respiratory organs)	Health hazard	Danger	Causes damage to organs (respiratory organs) through prolonged or repeated exposure	There is no case clearly indicating the influence of the exposure of mineral wool to humans. It classified into Category 1 (respiratory systems) since the statement the pulmonary inflammation and fibrosis were observed by the concentration within the guidance value of Category 1 for three months in the extended exposure test to the nose of a rat (ATSDR (2004)).
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.