### **GHS Classification**

# ID1155

## Sulfuric acid, cadmium salt(1:1), hydrate (8/3)

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

CAS 7790-84-3 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	-	-	-	Nonflammable. (GESTIS-database on hazardous substancess of cadmium sulfate (anhydride) (Accessed on Apr.2006) has a statement that it is "nonflammable".))
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	-	-	-	Nonflammable. (GESTIS-database on hazardous substancess (Accessed on Apr.2006) of cadmium sulfate (anhydride) has a statement that it is "nonflammable".)
11 Self-heating substances and mixtures	Not classified	-	-	-	Nonflammable. (GESTIS-database on hazardous substancess (Accessed on Apr.2006) of cadmium sulfate (anhydride) has a "nonflammable" statement.)
12 Substances and mixtures, which in contact with water, emit flammable gases	Not classified	-	-	-	Stable to water (readily soluble)
13 Oxidizing liquids	Not applicable	-	-	-	Solid (GHS definition)
14 Oxidizing solids	Classification not possible	-	-	-	No data available
15 Organic peroxides	Not applicable	-	-	-	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. (According to the risk phrases in EU-Annex I (Access on Jun. 2005) for cadmium sulfate (anhydride), its oral toxicity is high.) * Because the data available for this substance is limited, also refer to the classification results of cadmium sulfate (anhydride) (ID No.0254, CAS No.10108-64-2) for each item related to its health hazards.
1	Acute toxicity (dermal)	Classification not possible	_	-	-	No data available
1	Acute toxicity (inhalation: gas)	Not applicable	_	ı	-	Solid (GHS definition)
1	Acute toxicity (inhalation: vapour)	Classification not possible	_	-	-	No data available
1	Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	-	Data without. (In the risk phrases of EU-Annex I (Access on Jun.2005) of cadmium sulfate (anhydride), it is supposed that inhalation toxicity is very high.)
2	Skin corrosion / irritation	Classification not possible	-	-	-	No data available
3	Serious eye damage / eye irritation	Classification not possible	-	-	-	No data available
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. (germ cell mutagenicities of cadmium sulfate (anhydride) is suspected from EU-Annex I (Access on Jun.2005) and the class of MAK/BAT (2004) (respectively respectively Muta.Cat.2 and 3A)

6	Carcinogenicity	Category 1A-1B	Health hazard	Danger	exposure if it is conclusively proven that no other routes	It is categorized into Category 1A as cadmium compounds (Group 1, Known to be human carcinogens, 1respectively) in IARC53 (1993), NTP RoC (11th, 2005) and industrial hygene academic society advice (2004), the classification (Carc.Cat.2) as cadmium compounds in IRIS(1992) and ACGIH-TLV(2004)(B1, A2, respectively) and as cadmium sulfate (anhydride) in EU-Annex I (Access on Jun.2005) are categorized into Category 1B. Since the newness etc. of sources of the both Category were almost equivalent, it was classified into Category 1A-1B. [Indication] 1A is recommended based on the safety, when the Category needs to subdivide.
7	Toxic to reproduction	Category 1B	Health hazard			In California Proposition 65 (California EPA/OEHHA, 2005), it is registered as cadmium having reproductive toxicity in sire. It was set as Category 1B.
	Specific target organs/systemic toxicity following single exposure		-	-		No data available.
	Specific target organs/systemic toxicity following repeated exposure	Category 1 (kidneys)	Health hazard	Danger		Although there is no data of this product, there is a description of an effect on kidneys caused by repeated exposure of cadmium compounds (ACGIH-TLV (2004) in Priority 1 document). Therefore, it was classified into Category 1 (kidney).
10	Aspiration hazard	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		
	1 Hazardous to the aquatic environment (acute)	Classification not possible	-	-	-	No data available		
		Classification not possible	-	-	-	No data available.		