

## GHS Classification

**ID1373**

**hydrogen iodide**

**CAS 10034-85-2**

Date Classified: May 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	-	-	-	Gas (GHS definition)
2 Flammable gases	Not classified	-	-	-	Non-combustible (ICSC(J), 1999) UNRTDG No.2455, Class: 2.2.
3 Flammable aerosols	Not applicable	-	-	-	Not aerosol products
4 Oxidizing gases	Not classified	-	-	-	Not classified because it is UNRTDG No. 2197, Class: 2.3(8) but not Subsidiary risks Class: 5.1.
5 Gases under pressure	Liquefied gas(Low pressure liquefied gas)	Gas cylinder	Warning	Contains gas under pressure; may explode if heated	Low pressure liquefied gas because of "the critical temp: 151.0degC" (Merck, 13th, 2001) and the boiling point: -35.1 degC (at 1atm).
6 Flammable liquids	Not applicable	-	-	-	Gas (GHS definition)
7 Flammable solids	Not applicable	-	-	-	Gas (GHS definition)
8 Self-reactive substances and mixtures	Not applicable	-	-	-	Gas (GHS definition)
9 Pyrophoric liquids	Not applicable	-	-	-	Gas (GHS definition)
10 Pyrophoric solids	Not applicable	-	-	-	Gas (GHS definition)
11 Self-heating substances and mixtures	Not applicable	-	-	-	Gas (GHS definition)
12 Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	-	-	-	Gas (GHS definition)
13 Oxidizing liquids	Not applicable	-	-	-	Gas (GHS definition)
14 Oxidizing solids	Not applicable	-	-	-	Gas (GHS definition)
15 Organic peroxides	Not applicable	-	-	-	Gas (GHS definition)
16 Corrosive to metals	Classification not possible	-	-	-	Although it is corrosive gas as UNRTDG is classified into 2.3 (8) according to the UNRTDG No. (2197), test methods suitable for gaseous substances are not established.

**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)	Classification not possible	-	-	-	No data available
1 Acute toxicity (inhalation: dust, mist)	Not applicable	-	-	-	Gas (GHS definition)
2 Skin corrosion / irritation	Category 1A-1C	Corrosion	Danger	Causes severe skin burns and eye damage	Since there is description that "skin necrosis" is seen to humans in Priority 1(PATY (5th, 2001)), and it was classified in 'C;R35' of European risk phrases (EU-Annex I (access on Oct 2005)), it was set as category 1A-1C. [view] It is more desirable to be set as 1A from a viewpoint of safety, when further categorizing needs to be performed.
3 Serious eye damage / eye irritation	Category 1	Corrosion	Danger	Causes serious eye damage	From the description that critical irritation is indicated to the human eye in Priority 1 (PATY (5th, 2001)), and the document of Priority 2 had description "caustic is indicated to an eye" (ICSC (J) (1999), SITTIG (4th, 2002)), 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 (inhalation:respiratory)	Health hazard	Danger	Cause damage to organs (inhalation:respiratory)	Since there is description that in Priority 1 and Priority 2, by inhalation of this product, it effects on the respiratory system, such as pulmonary edemas, an edema of larynx, an edema of glottis (PATTY (5th, 2001), ICSC (J) (1999), HSDB (2003), SITTIG (4th, 2002)), it was considered as Category 1 (inhalation: respiratory systems).
9	Specific target organs/systemic toxicity following repeated exposure	Category 1 (inhalation: respiratory organs)	Health hazard	Danger	Causes damage to organs (inhalation: respiratory organs) through prolonged or repeated exposure	Since there was description that bronchitis was occurred in the long-term or repetitive exposure of this product (PATTY (5th, 2001), HSFS (2001) Priority 1 and Priority 2), it was classified into Category 1 (inhalation: respiratory systems).
10	Aspiration hazard	Not applicable	-	-	-	Gas (GHS definition)

#### 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.