GHS Classification

ID1399

Hydrogen

CAS 1333-74-0

Date Classified: Mar. 23, 2006

Physical Hazards

Reference Manual: GHS Classification Manual (Feb. 10, 2006)

Tysical Flazards Reference Mandai. and Glassification Mandai (Feb. 16, 2000)								
Hazard class	Classification	symbol	signal word	hazard statement				
1 Explosives	Not applicable	-	-	-	Gas (GHS definition)			
2 Flammable gases	Category 1	_	Danger	Extremely flammable gas	Ignitable when in a mixture of 13% or less by volume in air. UNRTDG Class: 2.1			
3 Flammable aerosols	Not applicable	-	_	_	Not aerosol products			
4 Oxidizing gases	Not classified	-	-	-	UNRTDG Class: 2.1			
5 Gases under pressure	Compressed gas or Refrigerated liquefied gas	Gas cylinder	Warning	Contains	According to its physical state when packed, classified in; Compressed gas: entirely gaseous at -50degC or critical temp <-50degC or, Refrigerated liquefied gas: partially liquid because of its low temperature			
6 Flammable liquids	Not applicable	-	-	-	Gas (GHS definition)			
7 Flammable solids	Not applicable	-	-	_	Gas (GHS definition)			
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	Not classified	-	-	-	UNRTDG Class: 2.1			

Health Hazards

Haz	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification	
1	Acute toxicity (oral)	Not applicable	-	ı	_	Gas (GHS definition)	
1	Acute toxicity (dermal)	Not applicable	ı	ı		Gas (GHS definition)	
1	Acute toxicity (inhalation: gas)	Not classified	-	İ	-	It was considered as the outside of Category based on rat LC50 (1 hour): >15000ppm (IUCLID, 2000) (4-hour equivalent >7500ppm), .	
1	Acute toxicity (inhalation:	Not applicable	-	ı	_	Gas (GHS definition)	
1	Acute toxicity (inhalation: dust, mist)	Not applicable	-	I	-	Gas (GHS definition)	
2	Skin corrosion / irritation	Classification not possible	-	ı	-	No data available	
3	Serious eye damage / eye irritation	Classification not possible	-	-		Although it was indicated that the toxic effects to an eye was not known by HSDB (2005), there being no data which negates hazard clearly in Priority1. So it cannot classify.	
4	Respiratory/skin sensitization	Respiratory sensitization: Classification not possible; Skin sensitization: Classification not	-	-	-	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	possible	-	-	-	No data available.
	9 Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	ı	ı	No data available
1	Aspiration hazard	Not applicable	-	ı	_	Gas (GHS definition)

Environmental Hazards

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	Hazard class		Classification	symbol	signal word	hazard statement	Rational for the classification		
Ī	11 Hazardous to the environment (ac		Classification not possible	-	-		There is no data to classify. (Since it is a gaseous substance which does not dissolve into water easily due to ordinary temperatures, the test is not carried out.)		
	11 Hazardous to the environment (character)		Classification not possible	-	1		No data available. (Since it is a gaseous substance which does not easily dissolve into water in the ordinary temperature, the test has not been carried out.)		