## **GHS Classification**

ID781

oxalonitrile

CAS 460-19-5

Date Classified: Jun. 20, 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	Category 1	-	Danger	Extremely flammable gas	UNRTDG No.1026, Class: 2.3 (2.1)
3 Flammable aerosols	Not applicable	-	-	-	Not aerosol products
4 Oxidizing gases	Not classified	_	-	_	UNRTDG No.1026, Class: 2.3 and 2.1
5 Gases under pressure	Liquefied gas	Gas cylinder	Warning	Contains gas under pressure; may explode if heated	Liquefied gas because of "the steam pressure: 11.5 atm at 50degC"(GESTIS, 2006) which is >3 atm, and "the critical temp: 128.3degC" (HSDB, 2005) which is >65degC
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	-	-	-	Test methods applicable to gas substances are not available

## **Health Hazards**

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Haz	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification		
1	Acute toxicity (oral)	Classification not possible	-	-	-	No data available		
1	• • • •	Classification not possible	-	-	_	No data available		
1	Acute toxicity (inhalation: gas)	Category 2	crossbones	Danger	Falat if inhaled	It was considered as Category 2 based on rat inhalation exposures LC50= 175ppm (4-hour equivalent) (Patty (5th, 2001)).		
1	Acute toxicity (inhalation:	Not applicable	-	_	-	Gas (GHS definition)		
1	Acute toxicity (inhalation: dust, mist)	Not applicable	-	-	-	Gas (GHS definition)		
2		Classification not possible	-	-	-	Lack of data. [Notes] Frostbite is reported on humans with contact with solution (ICSC(2001); HSFS (2000)).		
3	Serious eye damage / eye irritation	Category 2A-2B	Exclamation mark	Warning	Causes serious eye irritation	Based on that eye irritations are reported in humans (ATSDR(2004);ACGIH (2001), it was set as Category 2A-2B.		
4	Respiratory/skin sensitization	Classification not possible	-	_	-	No data available		
5	Germ cell mutagenicity	Classification not possible	-	-	-	No data available		
6	Carcinogenicity	Classification not possible	-	_	-	No data available		
7		Classification not possible	-	-	_	No data available		

8	Specific target organs/systemic toxicity following single exposure	Category 1 (central	Health hazard; Exclamation mark	Danger; Warning	respiratory irritation or may cause	In humans, affected to the central nervous systems (respiratory failure and collapses) (ICSC (2001)). Moreover, central nervous systems influences, such as hyperkinesis, panic, cooperativeness lack, thrill, a lethargica, etc. (ATSDR (2004)) being admitted at 175 ppm (4-hour equivalent) in a rat. So it is classified into Category 1 (central nervous systems). Furthermore, based on the human nose and the respiratory irritation is reported (ATSDR(2004); ICSC (2001)), it is classified into Category 3 (respiratory irritation).
	олросите	Category 2 (nervous system)	Health hazard	Warning		Based on that effect on the nervous system on the humans is reported (HSFS(2000);SITTING (2002)), it was classified into Category 2. However, the animal study data is not endorsing this.
10	Aspiration hazard	Not applicable	_	_	_	Gas (GHS definition)

## **Environmental Hazards**

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Ha	zard class	Classification	symbol	signal word	hazard statement	Rational for the classification	
1		Classification not possible	-	-	-	No data available	
1		Classification not possible	-	-	_	No data available.	