GHS Classification

ID606

toluidine

CAS 26915-12-8 Physical Hazards

Date Classified: Sep. 1, 2005 (Environmental Hazards: Mar. 31, 2006)

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

Vical Flazards Relations Wallada. And Glassification Maintai (Feb. 10, 2000)					
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	-	ı	-	Liquid (GHS definition)
3 Flammable aerosols	Not applicable	-	1	-	Not aerosol products
4 Oxidizing gases	Not applicable	-	ı	_	Liquid (GHS definition)
5 Gases under pressure	Not applicable	-	-	_	Liquid (GHS definition)
6 Flammable liquids	Category 4	-	Warning	Combustible liquid	Flash point: >60degC and <=93degC
7 Flammable solids	Not applicable	-	-	_	Liquid (GHS definition)
8 Self-reactive substances and mixtures	Not applicable	_	ı	-	There are no chemical groups associated with explosive or self-reactive properties present in the molecule.
9 Pyrophoric liquids	Not classified	-	ı	_	Flash point: 482degC (Ullmanns (E) (5th, 1995) A27: p159-160) and UNRTDG Class: 6.1
10 Pyrophoric solids	Not applicable	-	1	-	Liquid (GHS definition)
11 Self-heating substances and mixtures	Not classified	_	ı	_	UNRTDG Class: 6.1
12 Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	-	ı	-	The chemical structure of the substance does not contain metals or metaloids(B, Si, P, Ge, As, Se, Sn, Sb, Te, Bi, Po, At).
13 Oxidizing liquids	Not applicable	-	ı	_	Organic compounds containing no oxygen, fluorine and chlorine.
14 Oxidizing solids	Not applicable	-	1	_	Liquid (GHS definition)
15 Organic peroxides	Not applicable	-	ı	_	Containing no -0-0- structure
16 Corrosive to metals	Not classified	-	ı	-	UNRTDG Class: 6.1

Health Hazards

Haza	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
		Not applicable	-	-	-	Liquid (GHS definition)
	Acute toxicity (inhalation: vapour)	Classification not possible	-	-	-	No data available
	Acute toxicity (inhalation: dust, mist)	Classification not possible	-	ı	-	No data available
2	Skin corrosion / irritation	Classification not possible	-	ı	-	No data available
	Serious eye damage / eye irritation	Classification not possible	-	-	-	No data available
4	Respiratory/skin sensitization	sensitization: Classification not possible; Skin sensitization: Classification not	-	-	-	No data available
5		Classification not possible	-	-	-	No data available
6	Carcinogenicity	Category 1B	Health hazard		exposure if it is conclusively proven	P-toluidine is set to category 2 since it is classified into category A3 according to ACGIH (2001) and into 3 according to EU (2005). M-toluidine is set to the outside of category since it is classified into A4 according to ACGIH (2001). And o-toluidine is set to Category 1B, which is classified into A3 according to ACGIH (2001) but is categorized into group 2A according to IARC (Suppl 7, 1987), into 2A according to Japan Society for Occupational Health (Occupational Health Society advice 2005), and into category 2 in EU (2005). Therefore, isomer mixture toluidine was classified into Category 1B, the same as o-toluidine which serves as the severest segment among 3 isomer.
7	Toxic to reproduction	Classification not possible	_	-	-	No data available

8	Specific target organs/systemic toxicity following single exposure	Category 1 (systemic toxicity)	Health hazard			Based on the description that a significant toxicity is identified as the effect of 40ppm 60-minute exposure on humans (ACGIH (7th, 2001)), it was set as Category 1(systemic toxicity), since the target organ could not be specified.
9		Category 1 (systemic toxicity)	Health hazard	Danger		Because of the description that 10 ppm prolonged exposure causes a disease as effect on humans of ACGIH (7th, 2001), since target organ were not able to be specified, they were classified to Category 1 (systemic toxicity).
10		Classification not possible	-	-	-	No data available

Environmental Hazards

Haz	zard class	Classification	symbol	signal word	hazard statement	Rational for the classification
11		Classification not possible	-	-	-	Insufficient data available.
11	Hazardous to the aquatic environment (chronic)	Classification not possible	-	ı	ı	Classification not possible due to lack of data