GHS Classification

ID633

Aspirin

CAS 50-78-2

Date Classified: Jun. 20, 2006 (Environmental Hazards: Mar. 31, 2006)

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

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Haz	ard 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	-	1	-	Not aerosol products
4	Oxidizing gases	Not applicable	_	ı	-	Solid (GHS definition)
5	Gases under pressure	Not applicable	_	1	-	Solid (GHS definition)
6	Flammable liquids	Not applicable	_	ı	-	Solid (GHS definition)
7	Flammable solids	Classification not possible	_	-	-	No data available
8	Self-reactive substances and mixtures	Not classified	-	-	-	There are no chemical groups associated with explosive or self-reactive properties present in the molecule.
9	Pyrophoric liquids	Not applicable	-	1	-	Solid (GHS definition)
10	Pyrophoric solids	Not classified	_	-	-	Not ignite spontaneously on coming into contact with air at normal temperatures
11	Self-heating substances and mixtures	Classification not possible	-	-	-	No data available
12	Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	-	-	-	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 classified	-	-		Organic compounds containing oxygen (but not chlorine and fluorine) chemically bonded only to carbon and hydrogen (but not to other elements).
14	Oxidizing solids	Not applicable	-	-	-	Organic compounds containing oxygen (but not chlorine and fluorine) and the oxygen is chemically bonded only to carbon and hydrogen (but not to other elements).
15	Organic peroxides	Not applicable	-	-	-	Organic compounds containing no -0-0- structure
16	Corrosive to metals	Classification not	-	-	_	Melting point: >55degC and solid. Test methods are not available.

Health Hazards

Haz	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	Acute toxicity (oral)	Category 4	Exclamation mark	Warning	Harmful if swallowed	SPECIES: Rat; ENDPOINT: LD50; VALUE: about 1500mg/kg; REFERENCE SOURCE: IUCLID (2000)
1	Acute toxicity (dermal)	Classification not possible	-	-	-	No data available
1	Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Solid (GHS definition)
1	Acute toxicity (inhalation: vapour)	Classification not possible	-	-	-	No data available
1	Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	-	No data available
2	Skin corrosion / irritation	Category 3	-	Warning	Causes mild skin irritation	There are findings in animal studies that irritation is mild (IUCLID (20000)), ut that there is irritation on humans (ACGIH (2001), ICSC (J) (1998)).
3	Serious eye damage / eye irritation	Category 2A	Exclamation mark	Warning	Causes serious eye irritation	There is moderate irritation with a rabbit (IUCLID (2000)).
4	Respiratory/skin sensitization	Respiratory sensitization: Category1; Skin sensitization: Classification not possible	sensitization)Health hazard	(Respiratory sensitization)Da nger (Skin sensitization)-	(Respiratory sensitization)May cause allegy or asthma symptoms pr breathing difficulties if inhaled; (Skin sensitization)-	There is knowledge of respiratory sensitization (ACGIH (2001), IUCLID (2000)). As there is no data on the skin sensitization, it cannot be classified
5	Germ cell mutagenicity	Classification not possible	-	-		We found no information on the mammals in vivo genotoxicity study, and we found the negative results for almost all the in vitro mutagenicity tests (IUCLID (2000)).
6	Carcinogenicity	Not classified	-	_	-	Although there is no classification by an evaluation organization, anticancer effects is seen by the animal studies (IUCLID (2000)). It is used as an anticancer drugs (PATTY (5th, 2001)).
7	Toxic to reproduction	Category 1A	Health hazard	Danger	May damage fertility or the undorn child	There is a report which indicates reproductive toxicity on humans. (RTECS(2005))

8	Specific target organs/systemic toxicity following single exposure	Category 2 (lung, kidneys, stomach)	Health hazard	Warning	kidneys, stomach)	Since a description stating that effects were observed in human lung, kidney and stomach is found in (RTECS (2005)) of Priority 2, it was set as Category 2.
9	exposure	Category 2 (liver, auditory organ, blood system, central nervous system)	Health hazard	Warning		Although effects on liver, hearing, blood systems and a central nervous system are seen in humans(RETCS (2005)), it was classified to as Category 2 because of the literature of Prioty 2.
10		Classification not possible	-	-	-	No data available

Environmental Hazards

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Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification		
11 Hazardous to the aquatic environment (acute)	Not classified	-	-	-	It carried out the outside of Category from 48-hour EC50>100mg/L of Crustacea (Daphnia magna) (IUCLID, 2000).		
11 Hazardous to the aquatic environment (chronic)	Not classified	_	-	_	Since not water-insoluble (aqueous solubility =4600 mg/L (PHYSPROP Database, 2005)) and acute toxicity is low.		