GHS Classification

ID1156

potassium

CAS 7440-09-7

Date Classified: Mar. 23, 2006

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

Haza	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	Explosives	Not applicable	-	1	-	There are no chemical groups associated with explosive properties present in the molecules.
2	Flammable gases	Not applicable	-	ı	-	Solid (GHS definition)
3	Flammable aerosols	Not applicable	-	-	-	Not aerosol products
	Oxidizing gases	Not applicable	-	-	-	Solid (GHS definition)
	Gases under pressure	Not applicable	-	-	-	Solid (GHS definition)
6	Flammable liquids	Not applicable	-	ı	-	Solid (GHS definition)
7	Flammable solids	Not classified	_	1	_	UNRTDG Class: 4.3
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 applicable	-	-	-	Solid (GHS definition)
10	Pyrophoric solids	Not classified	-	ı	-	UNRTDG Class: 4.3
11	Self-heating substances and mixtures	Not classified	_	ı	_	UNRTDG Class: 4.3
12	Substances and mixtures, which in contact with water, emit flammable gases	Category 1	Flame	Danger	Itlammahla gacac	UNRTDG Class: 4.3; PG I Evolves hydrogen and ignites on contact with water. (NFPA (12th, 1997) p49-109)
13	Oxidizing liquids	Not applicable	-	-	-	Solid (GHS definition)
14	Oxidizing solids	Not applicable	-	1	-	Containing no oxygen , chlorine and fluorine.
15	Organic peroxides	Not applicable	-	-	-	Inorganic substance
16	Corrosive to metals	Not classified	-	-	-	UNRTDG Class: 4.3

Health Hazards

Haz	ard 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	_	ı	-	No data available
1	Acute toxicity (inhalation: gas)	Not applicable	-	ı	_	Solid (GHS definition)
1	Acute toxicity (inhalation: vapour)	Classification not possible	-	-	-	No data available
1	Acute toxicity (inhalation: dust, mist)	Classification not possible	_	ı	-	No data available
2	Skin corrosion / irritation	Category 1A-1C	Corrosion		Causes severe skin burns and eye damage	From statement with "Solid material causes severe skin burns." of HSDB (2005), it was judged as caustic (Category1A-1C).
3	Serious eye damage / eye irritation		Corrosion	Danger		It is judged that it causes serious lesional from "Solid material causes severe eye burns." and "Particles of metallic K have caused severe ocular injuries."(HSDB (2005)), it was classified into Category 1.
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	_	ı	-	No data available
7	Toxic to reproduction	Classification not possible	_	ı	-	No data available

	Specific target organs/systemic toxicity following single exposure	possible	-	-	-	Insufficient data available.
Ş	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	-		Although a potential of affecting respiratory tracts by repeated exposure is suggested (HSFS (2003) and SITTIG (4th 2002)), it cannot be classified for no concrete case report and lack of data.
10		Classification not possible	-	-	-	No data available

Environmental Hazards

H	azard class	Classification	symbol	signal word	hazard statement	Rational for the classification		
	11 Hazardous to the aquatic environment (acute)	Category 3	-	-	Harmful to aquatic life	It was classified into Category 3 from 96-hour LC50=53200microg/L of Crustacea (Amphipod) (AQUIRE, 2003).		
	11 Hazardous to the aquatic environment (chronic)	Not classified	-	-	_	Toxicity factor is considered to be strong base as aqueous solution, but toxic effect is eased by the buffer action in the environmental water.		