GHS Classification

ID804

propyl nitrate

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

CAS 627-13-4 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 classified	-	-	-	Not classified in explosives, though being a nitrate containing chemical groups with explosive properties present.
2	Flammable gases	Not applicable	-	-	-	Liquid (GHS definition)
3	Flammable aerosols	Not applicable	-	-	-	Not aerosol products
4	Oxidizing gases	Not applicable	-	-	_	Liquid (GHS definition)
5	Gases under pressure	Not applicable	-	-	-	Liquid (GHS definition)
6	Flammable liquids	Category 2	Flame	Danger	Highly flammable liquid and vapour	Flash point: 20degC, Boiling point: 110degC
7	Flammable solids	Not applicable	-	-	-	Liquid (GHS definition)
8	Self-reactive substances and mixtures	Not classified	-	-	-	Classified in UNRTDG Class: 3
9	Pyrophoric liquids	Not applicable	-	-	-	The ignition points is 175 degC and does not ignite in normal temperature.
10	Pyrophoric solids	Not applicable	-	-	-	Liquid (GHS definition)
11	Self-heating substances and mixtures	Classification not possible	-	-	-	Test methods applicable to liquid substances are not 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	-	-	-	UNRTDG Class: 3 (Not 5.1)
	Oxidizing solids	Not applicable	_	_		Liquid (GHS definition)
15	Organic peroxides	Not applicable	-	-	_	Organic compounds containing no -0-0- structure
16	Corrosive to metals	Classification not possible	-	-	-	No data available on corrosion to metals

Health Hazards

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Classification not possible	-	-	1	Since there is no LD50 value, it cannot be classified. However death (PATTY(5th, 2001)) is seen by 7.5g/kg and 5g/kg in rats, they seem to be the outside of Category.
1 Acute toxicity (dermal)	Classification not possible	-	-	ı	No data available
1 Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Liquid (GHS definition)
1 Acute toxicity (inhalation: vapour)	Category 5	-		May be harmful if inhaled	There are data with rat LC50: 9000 - 10000ppm (4h) (ACGIH (2001) and (PATTY (5th, 2001)). Since this was below doubled 5000ppm (Category 4), it was classified as Category 5.
1 Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	ı	No data available
2 Skin corrosion / irritation	Classification not possible	-	-	ı	Since there is no primary skin irritation data, it cannot be classified.
3 Serious eye damage / eye irritation	Classification not possible	-	-	-	No data available
4 Respiratory/skin sensitization	Classification not possible	-	-	-	No data available
5 Germ cell mutagenicity	Classification not possible	-	-	ı	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		Health hazard	Danger; Warning	Cause damage to organs (nervous system); May cause damage to organs (systemic toxicity)	Classified as Category1 (nervous system) because human symptoms include serious ones, such as sensory irritation, headache, and nausea (ACGIH (2001)). Classified as Category 2 (systemic) because oral administration of 1.0g/kg to a rat showed debility, asynergia and cyanosis (PATTY (5th, 2001)).

9	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	-	_	There is no human case, and the effect of repeated exposure is not seen in animal studies other than the knowledge seen in single exposures.
10	Aspiration hazard	Classification not possible	-	-	-	No data available

Environmental Hazards

На	zard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	1 Hazardous to the aquatic environment (acute)	Classification not possible	-	-	-	No data available
1	1 Hazardous to the aquatic environment (chronic)	Classification not possible	=	-	-	No data available.