

GHS Classification

ID849

Turpentine oil

CAS 8006-64-2

Date Classified: Mar. 23, 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 classified	-	-	-	UNRTDG Class: 3
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 3	Flame	Warning	Flammable liquid and vapour	Flash point: >=23degC and <=60degC, UNRTDG Class: 3, PGIII
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 classified	-	-	-	Flash point: 220 - 255degC (ICSC (J), 2002)
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 classified	-	-	-	UNRTDG Class: 3
13 Oxidizing liquids	Not classified	-	-	-	UNRTDG Class: 3
14 Oxidizing solids	Not applicable	-	-	-	Liquid (GHS definition)
15 Organic peroxides	Not classified	-	-	-	UNRTDG Class: 3
16 Corrosive to metals	Classification not possible	-	-	-	No data available

Health Hazards

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Category 2	Skull and crossbones	Danger	Fatal if swallowed	According to rat LD50 value: 5760mg/kg (DFGOT (Vol.17, 2002)), it is set as the outside of Category. But the lethal dose calculated based on death cases in humans (ACGIH (7th, 2001)) was equivalent to about 210 to 1260 mg/kg, and covers from Category 2 to 3, we took the severer one and set it to Category 2.
1 Acute toxicity (dermal)	Not classified	-	-	-	Since in dermal administration to rabbits, even 5010mg/kg did not have a case of death, it was set as the outside of Category.
1 Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Liquid (GHS definition)
1 Acute toxicity (inhalation: vapour)	Category 3	Skull and crossbones	Danger	Toxic if inhaled	Based on rat LC50 value (4 hour exposure): 13700mg/m3 (equivalent: 2450ppm), it was judged as steam which does not include mist. And was classified as Category 3.
1 Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	-	No data available
2 Skin corrosion / irritation	Category 2	Exclamation mark	Warning	Causes skin irritation	It was set as Category 2 from description that there was irritation to the human skin (ACGIH (7th, 2001), PATTY(4th, 1994) Vol.II, 1267-1292, DFGOT (Vol.17, 2002)), and that strong irritation was in the rabbit skin (RTECS (Access on Aug 2005)).
3 Serious eye damage / eye irritation	Category 1	Corrosion	Danger	Causes serious eye damage	There is the description that there are severe irritations and caustic to the eye of the humans (PATTY (4th, 1994)), as judging that there was critical eye damage. And it was set as Category 1.
4 Respiratory/skin sensitization	Respiratory sensitization: Classification not possible; Skin sensitization: Category 1	Exclamation mark	Warning	(Respiratory sensitization)-; (Skin sensitization)May cause allergic skin reaction	Respiratory organs: Although the case reports which suggests respiratory sensitizing property and allergic rhinitis for the human is mentioned in DFGOT/(Vol.14, 2000), we could not classify it because of insufficiency of data, for there were no other examples of such reports. Skin : We classified it as Category 1 based on the descriptions that it has skin sensitizing property in the epidemiological survey for occupation exposure in the human in Japan Society For Occupational Health Advice (1993), ACGIH (7th, 2001), DFGOT (Vol.14, 2000), PATTY(4th, 1994), and likewise on the description that it gave positive in the tests with the Maximization method in the guinea pig of DFGOT (vol.14 2000).
5 Germ cell mutagenicity	Classification not possible	-	-	-	No data available
6 Carcinogenicity	Not classified	-	-	-	Since it was classified into A4 in ACGIH (ACGIH 7th, 2001), it was considered as the outside of Category.
7 Toxic to reproduction	Classification not possible	-	-	-	Classification not possible due to lack of data

8	Specific target organs/systemic toxicity following single exposure	Category 1 (kidneys); Category 3 (respiratory tract irritation)	Health hazard	Danger	Cause damage to organs (kidneys); May cause respiratory irritation or may cause drowsiness and dizziness (respiratory tract irritation)	From description that there are incidence of renal impairment and airway mucosa irritation by acute exposure in the humans of industrial hygiene academic society advice (1993), ACGIH (7th, 2001), and PATTY (4th, 1994). So it was set as Category 1 (kidney) and Category 3 (respiratory irritant).
9	Specific target organs/systemic toxicity following repeated exposure	Category 1 (kidneys, respiratory organs)	Health hazard	Danger	Causes damage to organs (kidneys, respiratory organs) through prolonged or repeated	It was classified into Category 1 (kidney, respiratory organs) dueing to descriptions that respiratory disorders, such as chronic bronchitis, and a renal damage were observed in humans with the long-term occupational exposure (Japan Society for Occupational Health Recommendation of Occupational Exposure Limits (1993), DFGOT vol.17 (2002), and PATTY (4th, 1994)).
10	Aspiration hazard	Category 1	Health hazard	Danger	May be fatal if swallowed and enters airways	Based on the descriptions that when it is aspirated into the airway by the aspiration (ACGIH (7th, 2001), PATTY (4th, 1994), DFGOT (Vol.17, 2002), ICSC (J) (2002)), it may cause the chemical pneumonia, we classified it as Category 1.

Environmental Hazards

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