

GHS Classification

ID722

Tar, coal

CAS 8007-45-2

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	-	-	-	Not classified in UNRTDG Class: 1
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	Classification not possible	-	-	-	The flash point varies with origins and data cannot be specified.
7 Flammable solids	Not applicable	-	-	-	Liquid (GHS definition)
8 Self-reactive substances and mixtures	Not classified	-	-	-	Not classified in UNRTDG Class: 4.1
9 Pyrophoric liquids	Not classified	-	-	-	In general hazardous materials transportation, it is not considered as a class 4.2.
10 Pyrophoric solids	Not applicable	-	-	-	Liquid (GHS definition)
11 Self-heating substances and mixtures	Not classified	-	-	-	In general hazardous materials transportation, it does not consider as a class 4.2.
12 Substances and mixtures, which in contact with water, emit flammable gases	Not classified	-	-	-	Not classified in UNRTDG Class: 4.3
13 Oxidizing liquids	Not classified	-	-	-	UNRTDG Class: Not 5.1
14 Oxidizing solids	Not applicable	-	-	-	Liquid (GHS definition)
15 Organic peroxides	Not classified	-	-	-	Containing no hydrogen peroxide. There is no information that there is an active oxygen based on organic peroxides.
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 4	Exclamation mark	Warning	Harmful if swallowed	Category 4 based on SPECIES: Rat; ENDPOINT: LD50; VALUE: 1700mg/kg; REFERENCE SOURCE: ATSDR (2002)
1 Acute toxicity (dermal)	Not classified	-	-	-	It was set as outside of Category from rabbit LD50: about 15800mg/kg.
1 Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Liquid (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	Since the results of Draize tests on humans and rabbits were both Mild, it was classified as "Category 3". Chronic skin disorder in epidemiological study of workers is also reported.
3 Serious eye damage / eye irritation	Category 1	Corrosion	Danger	Causes serious eye damage	It was set as Category 1 from the information that effect remains several months by humans (HSDB (2003)) (it does not recover within 21 days).
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	Reports on respiratory sensitization could not be obtained. There is a report on the skin sensitization in humans. It was referred to as Category 1, since the hypersensitivity against light was also identified (IARC 35 (1985)).
5 Germ cell mutagenicity	Category 2	Health hazard	Warning	Suspected of causing genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	Test cases in humans (IARC (vol.35, 1985)) were the microbe mutagenicity tests which used the metabolic wastes in the body, and were not the in vivo tests. However, there was a mutagenicity positive finding for the somatic cells (ATSDR (2002)) and there was also positive in vitro finding. So we classified it as "Category 2".
6 Carcinogenicity	Category 1	-	-	-	Since it was estimated as known humans carcinogen, such as IARC: 1, ACGIH: A1, Occupational Health Society: 1st group, it was set to "1."
7 Toxic to reproduction	Classification not possible	-	-	-	Although effect is observed with the dose affecting to the maternal body in different routes of exposure, there is not enough data for a judgment.

8	Specific target organs/systemic toxicity following single exposure	Category 1 (nervous system); Category 3 (respiratory tract irritation)	Health hazard	Danger	Cause damage to organs (nervous system); May cause respiratory irritation or may cause drowsiness and dizziness (respiratory tract irritation)	It is classified into "Category 1 (nervous systems)" from statement with neurotoxin in humans (Patty (5th,2001)). And it is classified into "Category 3" (respiratory irritation) based on that the respiratory irritation is described to another literature (Patty (5th, 2001)).
9	Specific target organs/systemic toxicity following repeated exposure	Category 2 (respiratory organs)	Health hazard	Warning	May cause damage to organs (respiratory organs) through prolonged or repeated	I was classified into "Category 2" because the report that the adverse effects appeared in the respiratory tract of the mouse by aerosols repeated exposure of 0.09 mg/L (within the guidance value range of Category 2) (IARC (vol.35 (1985))).
10	Aspiration hazard	Classification not possible	-	-	-	We could not classify it because of lack of the information. Although it contains substances which causes chemical pneumonia (benzenes, ethylbenzene, xylenes, styrenes, toluene, etc.) mentioned to the ICSC cards (IARC 35 (1985)). However, we have no report whether there is any damages of aspiration as coal tar.

Environmental Hazards

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