GHS Classification

ID719 CAS 8002-05-9, 8012-Physical Hazards

Distillates (petroleum), solvent-refined heavy paraffinic; Distillates (petroleum), solvent-refined light naphthenic; Lubricating oils (pe

Date Classified: Feb. 20, 2007 (Environmental Hazards: Mar. 31, 2006)

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

Hazard	class	Classification	svmbol	signal word	hazard statement	Rational for the classification
	plosives	Classification not possible	-	-		No data available
2 Fla	ammable gases	Not applicable	-	_	-	Liquid (room temperature)
3 Fla	ammable aerosols	Not applicable	-	-	-	Not aerosol products
4 Ox	idizing gases	Not applicable	-	-	-	Liquid (room temperature)
5 Ga	ses under pressure	Not applicable	-	-	-	Liquid (room temperature)
6 Fla	ammable liquids	Not classified	-	_	-	Not classified because of its flash point: 149-232degC (NFPA, 13th, 2002)
7 Fla	ammable solids	Not applicable	-	-	-	Liquid (room temperature)
		Classification not possible	-	-	-	No data available
9 Pyi	rophoric liquids	Not classified	-	-	-	The ignition points is 260 - 371 degC (NFPA (13th, 2002)), and exceeds 70 degC.
10 Py	rophoric solids	Not applicable	-	-	-	Liquid (room temperature)
		Classification not possible	-	-	-	Test methods applicable to liquid substances are not available
in o		Classification not possible	-	-	-	No data available
13 Ox	idizing liquids	Classification not possible	-	-	-	No data available
14 Ox	idizing solids	Not applicable	_	-	-	Liquid (room temperature)
15 Org		Classification not possible	-	-	-	No data available
16 ^{Co}		Classification not possible	-	-	-	No data available

Health Hazards

Haz	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	Acute toxicity (oral)	Not classified	-	-	-	SPECIES: Rat ENDPOINT: LD50 VALUE: > 5000 mg/kg REFERENCE SOURCE: IUCLID (2000)
1	Acute toxicity (dermal)	Not classified	_	_	-	Based on rat LD50 >5000mg/kg (IUCLID (2000)), it was set as the outside of Category.
1	Acute toxicity (inhalation: gas)	Not applicable	_	_	-	Liquid (room temperature)
1	Acute toxicity (inhalation: vapour)	Classification not possible	-	-	-	No data available
1	Acute toxicity (inhalation: dust, mist)	Category 4	Exclamation mark	Warning	Harmful if inhaled	Category 4 because of "SPECIES: Rat; ENDPOINT: LC50 = 2.18 mg/L." (IUCLID, 2000)
2	Skin corrosion / irritation	Category 3	-	Warning	Causes mild skin irritation	It was classified as Category 3 based on several reports which observed mild irritation in rabbit tests (IUCLID (2000)).
3	Serious eye damage / eye irritation	Category 2B	-	Warning		By the test using a rabbit, there was a report (IUCLID (2000)) described to be mild irritation. So it was set as Category 2B.
4	Respiratory/skin sensitization	Diassification not	sensitization)-; (Skin		sensitization)-; (Skin	[respiratory sensitization] No data. [Skin sensitization] In multiple tests(including the maximization test) based on OECD Guideline 406 using the guinea pigs, a result that none of them had the sensitization was obtained (IUCLID (2000)), and therefore it was put outside of the Category.

	Germ cell mutagenicity	Category 2	Health hazard	Warning	defects (state route	Based on the increase in the abnormal cells in the cytogenetic study [chromosomal aberration test] (somatic cell in vivo mutagenicity test) using the rat (IUCLID (2000)), and based on the fact that increase was observed in frequency of the chromosomal aberration in the peripheral blood lymphocyte of the human who received occupational exposure (IARC suppl.7 (1987)), and on the fact that there being no information about the productive cell in vivo genotoxicity study. So we classified it as Category 2.
6	Carcinogenicity	Not classified (Highly refined oil), Category 1A(crude oil or slightly refined oil)	Health hazard	Danger	exposure if it is conclusively proven that no other routes	Un-refined or slight processed oil is classified into group 1, and highly refined oil is into group 3 (IARC (1987)), and the proposal of ACGIH (2006) can also be said to be the almost same category. It is classified into the 1st group according to Occupational Health Society (1977) as un-refined and a half-refined article. As mentioned above, according to the classification of IARC which the classification has decided, highly refined oil is set to outside of category and unrefined oils or low grade treated oil to Category 1A.
7	Toxic to reproduction	Classification not possible	-	ı	-	No data available
8	Specific target organs/systemic toxicity following single exposure	Category 2 (lung)	Health hazard		May cause damage to organs (lung) Gauses damage to	There is the statement that there is the grossly, histopathological acute changes (details unknown) in dependance to dose (1.51 - 5.05mg/L) in the rat test of inhalation exposure (IUCLID (2000)), it is classified into Category 3 (lung).
	Specific target organs/systemic toxicity following repeated exposure	Category 1 (lung, skin)	Health hazard		organs (lung, skin)	It was classified to as Category 1 (lungs, skin) since that pulmonary fibrosis, lipid pneumonias and lipogranuloma of lungs are reported in humans who received exposure of the mineral oils or the mist over many years (ACGIH (2001) and IARC 33 (1984),EHC 20 (1982)), and generation of the serious folliculitis is reported in the epidemiological study by occupational exposure to cutting oil (IARC 33 (1984)).
10	Aspiration hazard	Category 1	Health hazard	Danger	swallowed and	It was classified into Category 1 based on the reports that ingestion of mineral oil causes the aspiration into the lungs, and as a result it occures the pneumonie huileuses or chemical pneumonia in the human (EHC 20 (1982), IARC 33 (1984), ICSC (2001), ACGIH (2001)).

Environmental Hazards

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

stroleum), C15-30, hydrotreated neutral oil-based; Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Petroleum; Paraffin oils