

GHS Classification

ID820

Petroleum naphtha

CAS

Date Classified: Jul. 24, 2006 (Environmental Hazards: Mar. 31, 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	Classification not possible	-	-	-	No data available
2 Flammable gases	Not applicable	-	-	-	Liquid (room temperature)
3 Flammable aerosols	Not applicable	-	-	-	Not aerosol products
4 Oxidizing gases	Not applicable	-	-	-	Liquid (room temperature)
5 Gases under pressure	Not applicable	-	-	-	Liquid (room temperature)
6 Flammable liquids	Category 1	Flame	Danger	Extremely flammable liquid and vapour	It was classified as Category 1 based on -6.7 degC of flash point (<23 degC) (Renzo (3rd, 1986)) and 30 degC of boiling point (<=35 degC) (IUCLID (2000)).
7 Flammable solids	Not applicable	-	-	-	Liquid (room temperature)
8 Self-reactive substances and mixtures	Classification not possible	-	-	-	No data available
9 Pyrophoric liquids	Not classified	-	-	-	Based on the ignition points of 232 degC (> 70 degC) (Renzo (3rd, 1986)), it was classified as the outside of Category.
10 Pyrophoric solids	Not applicable	-	-	-	Liquid (room temperature)
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	Classification not possible	-	-	-	No data available
13 Oxidizing liquids	Classification not possible	-	-	-	No data available
14 Oxidizing solids	Not applicable	-	-	-	Liquid (room temperature)
15 Organic peroxides	Classification not possible	-	-	-	UNRTDG No. 1203 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)	Not classified	-	-	-	SPECIES: Rat ENDPOINT: LD50 VALUE: > 7 g/kg REFERENCE SOURCE: IUCLID (2000)
1 Acute toxicity (dermal)	Not classified	-	-	-	Based on no death (IUCLID (2000)) at rat LD50 >2000mg/kg, and it was set as the outside of Category.
1 Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Liquid (room temperature)
1 Acute toxicity (inhalation: vapour)	Category 4	Exclamation mark	Warning	Harmful if inhaled	It was classified as Category 4 based on rat LC50 = 3400ppm (ACGIH (2001)).
1 Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	-	No data available
2 Skin corrosion / irritation	Category 2	Exclamation mark	Warning	Causes skin irritation	Based on moderately irritating (IUCLID (2000)), it was set as Category 2 to the rabbit skin by Draize examination (GLP).
3 Serious eye damage / eye irritation	Not classified	-	-	-	Based on the statement that there is no irritation to a rabbit eye by Draize examination (GLP), it was set as the outside of Category.
4 Respiratory/skin sensitization	Respiratory sensitization: Classification not possible; Skin sensitization: Not possible	(Skin sensitization)-	(Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	Respiratory sensitization: No data. Skin sensitization: We classified it to be Out Of Category based on the statement that it has no skin sensitization property (IUCLID (2000)) for the Buehler tests (GLP) using the guinea pigs.
5 Germ cell mutagenicity	Not classified	-	-	-	Based on the statement that the result of in vivo chromosomal aberration test (somatic cell in vivo mutagenicity test) on rat bone marrow cell was negative (IUCLID (2000)), it was classified as out of Category.
6 Carcinogenicity	Classification not possible	-	-	-	It cannot be categorized by a technological direction since there is only the EU classification. [Notes] It is considered as Cat.2;R45 (May cause cancer) (EU (2006)) in the EU classification for Naphthas (CAS No.64741-42-0 (full-range straight run).
7 Toxic to reproduction	Classification not possible	-	-	-	No data available

8	Specific target organs/systemic toxicity following single exposure	Category 3 (respiratory tract irritation)	Exclamation mark	Warning	may cause respiratory irritation or may cause drowsiness and dizziness (respiratory tract irritation)	It was set as Category 3 (respiratory irritant) by the statement which stimulates the human upper respiratory tract (ACGIH (2001)).
9	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	-	-	As far as the prolonged repeated exposure test reports using naphthas investigated, it was not seen, and it was presupposed that it was unable to be taxonomic according to lack of information.
10	Aspiration hazard	Category 1	Health hazard	Danger	May be fatal if swallowed and enters airways	We classified it as Category 1 based on the statement that in all species used in the experiment, if a small quantity of petroleum solvent (petroleum naphtha) enters into the airway it causes chemical pneumonia (EHC (1982)), and based on the classification of Xn;R65 (Harmful;may cause lung damage if swallowed) for the EU categorization.

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.