## **GHS Classification**

ID470

p-Phenetidine

CAS 156-43-4 Physical Hazards

Date Classified: Aug. 22, 2006 (Environmental Hazards: Mar. 31, 2006)

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

•••	Sical Hazards (Coloride Mandal, and Olassinadori Mandal (160, 10, 2000)						
Н	laza	rd class	Classification	symbol	signal word	hazard statement	Rational for the classification
	1	Explosives	Not applicable	-	_	1	Containing no chemical groups with explosive properties
Г	2	Flammable gases	Not applicable	-	1	-	Classified as "liquid" according to GHS definition
	3	Flammable aerosols	Not applicable	-	-	ı	Not aerosol products
	4	Oxidizing gases	Not applicable	_	_	ı	Classified as "liquid" according to GHS definition
	5	Gases under pressure	Not applicable	_	_	ı	Classified as "liquid" according to GHS definition
	6	Flammable liquids	Not classified	_	_	ı	The flash point is 116degC (c.c.) (NFPA (13th, 2002))
	7	Flammable solids	Not applicable	-	-	-	Classified as "liquid" according to GHS definition
	~	Self-reactive substances and mixtures	Not applicable	_	-	1	Containing no chemical groups with explosive or self-reactive properties
	9	Pyrophoric liquids	Not classified	_	_	ı	Classified into Division 6.1 (UN#2311) (UN Recommendations on the Transport of Dangerous Goods)
	10	Pyrophoric solids	Not applicable	_	_	ı	Classified as "liquid" according to GHS definition
		Self-heating substances and mixtures	Classification not possible	_	_	ı	Test methods applicable to liquid substances are not available.
	-	Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	-	_	I	Containing no metalls or metalloids (B, Si, P, Ge, As, Se, Sn, Sb, Te, Bi, Po, At)
	13	Oxidizing liquids	Not applicable	_	_	ı	Organic compounds containing oxygen (but not fluorine and chlorine), with the oxygen bound to carbon and hydrogen (but not to other elements)
			Not applicable	_	-	-	Classified as "liquid" according to GHS definition
	15	Organic peroxides	Not applicable	_	_	ı	Organic compounds containing no "-0-0-" structure
Г	16	Corrosive to metals	Not classified	-	-	ı	Classified into Division 6.1 (UN#2311) (UN Recommendations on the Transport of Dangerous Goods)

## 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	Based on the rat LD50 (oral route) value of 540mg/kg representing the lower of the two testing data, 540mg/kg and 580mg/kg (CERI Hazard Data 2000-25 (2001)).
1 Acute toxicity (dermal)	Category 5	_	Warning	May be harmful in contact with skin	Based on the rabbit LD50 (dermal route) value of 2,353mg/kg (CERI Hazard Data 2000–25 (2001)).
1 Acute toxicity (inhalation: gas)	Not applicable	_	_	_	Due to the fact that the substance is "liquid" according to the GHS definition and inhalation of its gas is not expected.
1 Acute toxicity (inhalation:	Category 3	Skull and crossbones	Danger	Toxic if inhaled	Based on the rat LC50 (inhalation of vapour) value of 3.53mg/L (IUCLID (2000)).
1 Acute toxicity (inhalation: dust, mist)	Classification not possible	_	_	_	No data available
2 Skin corrosion / irritation	Category 3	-	Warning	Causes mild skin irritation	Based on the description in the report on rabbit skin irritation tests (24 hour application) (CERI Hazard Data 2000-25 (2001) and SIDS (1995)): "slightly irritating."
3 Serious eye damage / eye irritation	Category 2A	Exclamation mark	Warning	Causes serious eye irritation	Based on the description in the report on rabbit eye irritation tests (CERI Hazard Data 2000–25 (2001) and SIDS (1995)) "moderate to severe irritation."
	Respiratory sensitization: Classification not possible Skin sensitization: Category 1	(Respiratory sensitization) — (Skin sensitization) Exclamation mark	(Respiratory sensitization) — (Skin sensitization) Warning	(Respiratory sensitization)— (Skin sensitization) May cause an allergic skin reaction	Respiratory sensitization: No data available Skin sensitization: Based on the positive results in guinea pig Maximization Tests performed in accordance with OECD Test Guideline 406 (IUCLID (2000)), along with the positive results in several patch tests on humans (IUCLID (2000)).
5 Germ cell mutagenicity	Category 2	Health hazard	Warning	Suspected of causing genetic defects	Based on the absence of data on multi-generation mutagenicity tests, germ cell mutagenicity tests in vivo and germ cell genotoxicity tests in vivo, and positive data on somatic cell mutagenicity tests in vivo (micronucleus tests), described in SIDS (1995), CERI Hazard Data 2000-25 (2001), NTP DB (Access on March 2006) and Report by the Ministry of Health, Labour and Welfare (1994).
6 Carcinogenicity	Classification not possible	-	_	_	No data available
7 Toxic to reproduction	Category 2	Health hazard	Warning	Suspected of damaging fertility or the unborn child	Based on the evidence of reduced fertility at doses causing parental toxicity, described in CERI Hazard Data 2000-25 (2001), Report by the Ministry of Health, Labour and Welfare (1994) and SIDS (1995).
Specific target organs/systemic toxicity following single exposure	Classification not possible	_	_	_	Insufficient data available

!	Specific target organs/systemic toxicity following repeated exposure	Category 1 (blood system)	Health hazard	Ü	organs through prolonged or repeated	Based on the human evidence including "cyanosis, methemoglobinemia" (IUCLID (2000)), and the evidence from animal studies including "reduced RBC, increased reticulocytes, methemoglobinemia" (Report by the Ministry of Health, Labour and Welfare (1994)), "normocytic anemia and methemoglobinemia" (CERI Hazard Data 2000–25 (2001)). The effects on experimental animals were observed at dosing levels within the guidance value ranges for Category 1.
1	Aspiration hazard	Classification not possible	_	ı	ı	No data available

## **Environmental Hazards**

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	Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification		
ſ	11 Hazardous to the aquatic environment (acute)	Category 2	-	-	Toxic to aquatic life	It was classified into Category 2 from 72 hours EC50=5.1mg/L of the algae (Selenastrum) (SIDS (1995) and others.).		
	11 Hazardous to the aquatic environment (chronic)	Category 2	Environment			Although acute toxicity was Category 2 and the bio-accumulation potential was low (BCF=1.1(Existing Chemical Safety Inspections Data)), since there was no rapidly degrading (the decomposition by BOD: 0%(Existing Chemical Safety Inspections Data)), it was classified into Category 2.		