## **GHS** Classification

ID832 CAS 2475–45–8 Physical Hazards

# 1,4,5,8-tetraaminoanthraquinone Date Classified: May 24, 2006 (Environmental Hazards: Mar. 31, 2006)

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

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Explosives	Not applicable	-	-	-	There are no chemical groups associated with explosive properties present in the molecules.
2 Flammable gases	Not applicable	-	1	-	Solid (GHS definition)
3 Flammable aerosols	Not applicable	-	-	-	Not aerosol products
4 Oxidizing gases	Not applicable	-	-	-	Solid (GHS definition)
5 Gases under pressure	Not applicable	-	-	-	Solid (GHS definition)
6 Flammable liquids	Not applicable	-	-	-	Solid (GHS definition)
7 Flammable solids	Classification not possible	-	-	-	No data available
8 Self-reactive substances and mixtures	Not applicable	_	I	-	There are no chemical groups associated with explosive or self-reactive properties present in the molecule.
9 Pyrophoric liquids	Not applicable	-	1	-	Solid (GHS definition)
10 Pyrophoric solids	Classification not possible	-	-	-	No data available
11 Self-heating substances and mixtures	Classification not possible	-	-	-	No data available
12 Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	_	_	-	The chemical structure of the substance does not contain metals or metaloids(B, Si, P, Ge, As, Se, Sn, Sb, Te, Bi, Po, At).
13 Oxidizing liquids	Not applicable	-	-	-	Solid (GHS definition)
14 Oxidizing solids	Not applicable	-	-	-	Organic compounds containing oxygen (but not chlorine and fluorine) and the oxygen is chemically bonded only to carbon (but not to other elements).
15 Organic peroxides	Not applicable	-	-	-	Organic compounds containing no −0−0− structure
16 Corrosive to metals	Classification not possible	-	-	_	Test methods applicable to solid substances are not available.

### Health Hazards

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Not classified	-	-		SPECIES: Rat ENDPOINT: LD VALUE: >3000 mg/kg REFERENCE SOURCE: NTP TR299 (1986)
1 Acute toxicity (dermal)	Classification not possible	-	-	-	No data available
<ol> <li>Acute toxicity (inhalation: gas)</li> </ol>	Not applicable	-	-	-	Solid (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	Classification not possible	-	-	-	There is no data and it cannot be classified. (It has classified into Xi; R38 in EU)
3 Serious eye damage / eye irritation	Classification not possible	-	-	-	No data available
4 Respiratory/skin sensitization	sensitization: Classification not possible; Skin sensitization: Classification not	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)–; (Skin sensitization)–	(Respiratory sensitization)−; (Skin sensitization)−	Both of which has no data and we could not classify it. (It is classified to be R43 in EU).
5 Germ cell mutagenicity	Classification not possible	-	-	-	Although there are reports of positive result in Ames test (NTP DB (2005)) and weak positive result in chromosome aberration test (NTP TR299 (1986)). Since there is no in vivo test report, it cannot be classified.

6	Carcinogenicity	Category 2	Health hazard	Warning		It was classified into Category 2 since it was classified into IARC 2B and the industrial hygene academic society 2B. A carcinogenic site is a bladder.
7		Classification not possible	_	-	-	There is description that it is not observed that abnormality on conceprion potential, pregnant, lactation and biotic potential of newborns in rat feeding administration test, and it is not observed teratogenicity in pregnant rat feeding administration and pregnant rabbit oral administration test (NTP TR299 (1986)), but the contained amount of this substance in the used mixture is little(0.61%). Therefore, it cannot be classified due to insufficiency of data.
	Specific target organs/systemic toxicity following single exposure	Classification not possible	-	-	-	No data available.
9		Classification not possible	-	-	-	The animal examination data of had many things about carcinogenicity, and the dose of each symptom acknowledged about general toxicity was out the guidance value of Category 2. There is also no report of humans and it cannot be classified.
10	-	Classification not possible	-	-	-	No data available

### **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.