## **GHS Classification**

ID498

## 2-Ethylhexyl methacrylate

CAS 688-84-6 Physical Hazards

Date Classified: Aug. 22, 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	-	-	-	Containing no chemical groups with explosive properties
2 Flammable gases	Not applicable	-	_	-	Classified as "liquid" according to GHS definition
3 Flammable aerosols	Not applicable	-	_	-	Not aerosol products
4 Oxidizing gases	Not applicable	-	_	_	Classified as "liquid" according to GHS definition
5 Gases under pressure	Not applicable	-	_	-	Classified as "liquid" according to GHS definition
6 Flammable liquids	Category 4	_	Warning	Combustible liquid	The flash point is 92degC (ICSC (2004)), which is classified into Category 4
7 Flammable solids	Not applicable	_	-	-	Classified as "liquid" according to GHS definition
8 Self-reactive substances and mixtures	Classification not possible	_	_	_	Classification not possible due to lack of data, though containing unsaturated bonds (olefin).
9 Pyrophoric liquids	Classification not possible	_	-	-	No data available
10 Pyrophoric solids	Not applicable	-	_	-	Classified as "liquid" according to GHS definition
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	Not applicable	-	_	_	Containing no metals or metalloids (B. Si, P, Ge, As, Se, Sn, Sb, Te, Bi, Po, At)
13 Oxidizing liquids	Not applicable	-	_	-	Organic compounds containing oxygen (but not fluorine and chlorine), with the oxygen bound to carbon and hydrogen (but not to other elements)
14 Oxidizing solids	Not applicable	_	-	-	Classified as "liquid" according to GHS definition
15 Organic peroxides	Not applicable	-	_	_	Organic compounds containing no "-0-0-" structure
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)	Classification not possible	-	-	-	Insufficient data available
1 Acute toxicity (dermal)	Classification not possible	_	-	-	No data available
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:	Classification not possible	_	_	_	No data available
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 the description in the report on rabbit skin irritation tests (exposure duration unknown) (CERI Hazard Data 2001–22 (2002)): "Moderate irritation."
3 Serious eye damage / eye irritation	Category 2B	_	Warning	Causes eye irritation	Based on the description in the report on rabbit eye irritation tests (CERI Hazard Data 2001–22 (2002)): "Mild irritation."
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Respiratory sensitization: Classification not possible Skin sensitization: Classification not possible	(Respiratory sensitization) — (Skin sensitization) —	(Respiratory sensitization) — (Skin sensitization) —	(Skin sensitization)-	Respiratory sensitization: No data available Skin sensitization: Both negative and positive responses were seen for cross-sensitization in human epidemiological studies (CERI Hazard Data 2001- 22 (2002)), whereas guine
5 Germ cell mutagenicity	Classification not possible	_	_	-	Classification not possible due to the insufficiency of data (no data available on in vivo mutagenicity/genotoxicity tests)
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 adverse effects on pup development (such as decreased number of live borns) at doses producing parental toxicity, described in CERI Hazard Data 2001–22 (2002), Report by the Ministry of Health and Labour and Welfare (1998).
8 Specific target organs/systemic toxicity following single exposure	Classification not possible	_	_	_	Insufficient data available
Specific target organs/systemic toxicity following repeated exposure	Classification not possible	_	_	_	Insufficient data available
10 Aspiration hazard	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)	Category 2	-	-	Toxic to aquatic life	It was classified into Category 2 from 96 hours LC50=2780microg/L of the fish (Oryzias Latipest) (MOE Risk Assessment vol. 3 (2004) and others.).
11	Hazardous to the aquatic environment (chronic)	Category 2	Environment			Although acute toxicity was Category 2 and there was rapidly degrading (the decomposition by BOD: 88%(Existing Chemical Safety Inspections Data)), since there was bio-accumulation (log Kow=4.54(PHYSPROP Database, 2005)), it was classified into Category 2.