

## GHS Classification

**ID751**

**mecrilate**

**CAS 137-05-3**

Date Classified: May 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 (GHS definition)
3 Flammable aerosols	Not applicable	-	-	-	Not aerosol products
4 Oxidizing gases	Not applicable	-	-	-	Liquid (GHS definition)
5 Gases under pressure	Not applicable	-	-	-	Liquid (GHS definition)
6 Flammable liquids	Category 4	-	Warning	Combustible liquid	Flash point: 83degC (Dictionary of Organic Compounds,1985).
7 Flammable solids	Not applicable	-	-	-	Liquid (GHS definition)
8 Self-reactive substances and mixtures	Classification not possible	-	-	-	No data available
9 Pyrophoric liquids	Not classified	-	-	-	Autoignition is not carried out even if it contacts the air of normal temperature (465 degC (an organic compounds dictionary, 1985) of ignition points).
10 Pyrophoric solids	Not applicable	-	-	-	Liquid (GHS definition)
11 Self-heating substances and mixtures	Classification not possible	-	-	-	Test methods are not 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 metalloids(B, Si, P, Ge, As, Se, Sn, Sb, Te, Bi, Po, At).
13 Oxidizing liquids	Not applicable	-	-	-	Organic compounds containing oxygen (but not chlorine and fluorine) chemically bonded only to carbon (but not to other elements).
14 Oxidizing solids	Not applicable	-	-	-	Liquid (GHS definition)
15 Organic peroxides	Not applicable	-	-	-	There are no chemical groups associated with peroxide present in the molecule.
16 Corrosive to metals	Not classified	-	-	-	Both of steels and aluminum can be used as a container. (HSDB, 2005)

## 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	SPECIES: Rat ENDPOINT: LD50 VALUE: 1.6 g/kg REFERENCE SOURCE: ACGIH (2001)
1 Acute toxicity (dermal)	Not classified	-	-	-	Based on guinea pig LD50 >11g/kg (ACGIH, 2001), it was set as the outside of Category.
1 Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Liquid (GHS definition)
1 Acute toxicity (inhalation: dust, mist)	Category 2	Exclamation mark	Danger	Fatal if inhaled	It was classified as Category 2 based on rat LC50 = 123ppm (4hr equivalent: 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	The severe irritation is reported for Draize test on rabbits (RTECS, 2004). Moreover, skin irritations with repeated exposure on human is reported (CICAD, 2001; ACGIH, 2001). Therefore, it was classified as Category 2.
3 Serious eye damage / eye irritation	Category 2B	-	-	Causes eye irritation	The rabbit ocular stimulate effects is recovered within seven days (CICAD, 2001), and the eye stimulus of reversibility in humans is also reported (ACGIH, 2001). Therefore, it was set as Category 2B.
4 Respiratory/skin sensitization	Respiratory sensitization: Category 1; Skin sensitization: Not classified	(Respiratory sensitization)Health hazard; (Skin sensitization)-	(Respiratory sensitization)Danger; (Skin sensitization)-	(Respiratory sensitization)May cause allergy or asthma symptoms or breathing difficulties if inhaled; (Skin sensitization)-	Since it is published in the "sensitizing chemicals of occupational allergy" list of the Japanese occupational and the environmental allergology meeting and described as "having respiratory tract sensitization," it was set to Category 1. In addition, skin sensitization has been identified negative in the result of a test with guinea pigs(CICAD, 2001;ACGIH, 2001), it was put outside of Category.
5 Germ cell mutagenicity	Classification not possible	-	-	-	Insufficient data available
6 Carcinogenicity	Classification not possible	-	-	-	Insufficient data available
7 Toxic to reproduction	Classification not possible	-	-	-	Insufficient 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)	Since the throat and bronchial irritation in humans was reported (CICAD, 2001), it is classified into Category 3 (respiratory irritation).
9	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	-	-	It is reported that harmful effect is not acknowledged within Category 2 guidance concentration (HSDB, 2005), however, additional information which decides a classification is not acquired.
10	Aspiration hazard	Classification not possible	-	-	-	The kinematic viscosity (40 degrees C) is considered to be <14mm <sup>2</sup> /s (kinematic viscosity 2mm <sup>2</sup> /s (25 degrees C) (common information: other information)), however, we have no data of aspiration breathing apparatus hazards, so we could not classify it.

### 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.