

## GHS Classification

**ID74**

**2-butylphenyl methylcarbamate**

**CAS 3766-81-2**

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	Not applicable	-	-	-	There are no chemical groups associated with explosive properties present in the molecules.
2 Flammable gases	Not applicable	-	-	-	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	-	-	-	There are no chemical groups associated with explosive or self-reactive properties present in the molecule.
9 Pyrophoric liquids	Not applicable	-	-	-	Solid (GHS definition)
10 Pyrophoric solids	Not classified	-	-	-	The flash point is 142 degC (Agricultural Chemical Registration Data (1995)), and even if it contacts air at room temperature, it does not ignite.
11 Self-heating substances and mixtures	Classification not possible	-	-	-	Test methods applicable to liquid or solid substances at 140degC 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	-	-	-	Solid (GHS definition)
14 Oxidizing solids	Not applicable	-	-	-	Organic compounds containing oxygen, chlorine and fluorine, and these elements are chemically bonded only to carbon (but not to other elements).
15 Organic peroxides	Not applicable	-	-	-	Organic compounds containing no -O-O- 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)	Category 4	Exclamation mark	Warning	Harmful if swallowed	SPECIES: Rat (female) ENDPOINT: LD50 VALUE: 425 mg/kg REFERENCE SOURCE: Agricultural Chemicals abstracts
1 Acute toxicity (dermal)	Not classified	-	-	-	Based on rat LD50 value: >5000mg/kg (Agricultural Chemicals abstracts), it was set as the outside of Category.
1 Acute toxicity (inhalation: gas)	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	-	-	-	Rat LC50 (4 hours) value: >2.50mg/L, and one female died from 1.92mg/L and three females died from 2.50mg/L (Agricultural-Chemicals abstracts). But the category could not be specified only by these data and it cannot be classified since data is insufficient.
2 Skin corrosion / irritation	Not classified	-	-	-	Since skin changes that matches criteria of mild irritation were not observed in the skin irritation test on rabbits (Agricultural-Chemicals abstracts), it was classified as out of Category.
3 Serious eye damage / eye irritation	Not classified	-	-	-	Since change of the eye which is adapted for criteria for diagnosis of irritation was not admitted as a result of the eye stimulativeness examination using a rabbit (Agricultural-Chemicals abstracts), it was set as the outside of Category.
4 Respiratory/skin sensitization	Respiratory sensitization: Classification not possible; Skin sensitization: Not possible	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	Respiratory sensitization: No data Skin sensitization: Classified as out of category because the result of a sensitization test using guinea pigs found no sensitization (agrochemical abstract).
5 Germ cell mutagenicity	Not classified	-	-	-	Because there is a negative result in a micronucleus test using mouse bone-marrow, which is an in vivo mutagenicity test using somatic cells (Agricultural-Chemicals abstracts), the substance was regarded as outside the categories.
6 Carcinogenicity	Not classified	-	-	-	Neither of the organizations had divided about carcinogenic. But carcinogenic was not observed as a result of the carcinogenic test using rats and mice (Agricultural-Chemicals abstracts). So it was set as the outside of Category.

7	Toxic to reproduction	Not classified	-	-	-	Since reproductive toxicity and teratogenicity are not observed in rat and rabbit teratogenic test with dose occurring general toxicity (Agricultural-Chemicals abstracts), they were considered as on the outside of Category. Moreover, there was no reproductive toxicity in rat reproductive test in spite of the dose not occurring have general toxicity to parent animals (Agricultural-Chemicals abstracts).
8	Specific target organs/systemic toxicity following single exposure	Category 1 (nervous system)	Health hazard	Danger	Cause damage to organs (nervous system)	Clonic convulsions were observed at the dosage within the guidance values for Category 1 in an oral administration test using rats (Agricultural Chemical Abstracts), so it was judged that the target organ was the nervous system. So the substance was classified as Category 1 (nervous system).
9	Specific target organs/systemic toxicity following repeated exposure	Not classified	-	-	-	Since the serious toxic effect by the dose over the guidance value range of Category 2 in the oral study using rat was not observed (Agricultural Chemicals abstracts), it was classified into the outside of Category.
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 1	Environment	Warning	Very toxic to aquatic life	It was classified into Category 1 from 48-hour EC50=0.0103mg/L of Crustacea (Daphnia magna) (Agricultural Chemical Registration Data, 2004).
11 Hazardous to the aquatic environment (chronic)	Category 1	Environment	Warning	Very toxic to aquatic life with long lasting effects	Classified into Category 1, since acute toxicity was Category 1, not rapidly degrading (BOD: 0% (existing chemical safety inspections data)), though less bioaccumulative (BCF=4 (existing chemical safety inspections data)).