## **GHS** Classification

ID728

## sec-butyl acetate

Date Classified: Apr. 20, 2006 (Environmental Hazards: Mar. 31, 2006)

CAS 105-46-4 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	-	-	-	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 2	Flame	Danger	Highly flammable liquid and vapour	Flash point: <23degC, Initial boiling point: >35degC, UNRTDG Class: 3, PG II
7 Flammable solids	Not applicable	-	-	-	Liquid (GHS definition)
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 classified	-	-	-	The liquid of which the ignition points is 410 degC, it does not ignite in room temperatures.
10 Pyrophoric solids	Not applicable	-	-	-	Liquid (GHS definition)
	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	-	-	-	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 classified	-	-	-	Organic compounds containing oxygen (but not halogen) chemically bonded only to carbon (but not to other elements).
14 Oxidizing solids	Not applicable	-	-	-	Liquid (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

Haza	ard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1	Acute toxicity (oral)	Category 5	-	Warning	May be harmful if swallowed	SPECIES: Rat ENDPOINT: LD50 VALUE: 3200 mg/kg REFERENCE SOURCE: RTECS (2004)
	Acute toxicity (dermal)	Classification not possible	-	I	-	No data available
1	Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Liquid (GHS definition)
1	Acute toxicity (inhalation: vapour)	Classification not possible	-	-	-	It cannot be classified due to data insufficiency. (Since there is a description that rat LC50 is 4290ppm - 24000ppm (DFGOTvol.19 (2003)), it seems to be right to treat it as Category 5.)
1	Acute toxicity (inhalation: dust, mist)	Classification not possible	-	I	-	No data available
2	Skin corrosion / irritation	Category 3	-	Warning	Causes mild skin irritation	The statement that the liquid is irritative to the skin (HSDB (2005)), it was classified as Category 3.
	Serious eye damage / eye irritation	Category 2A-2B	Exclamation mark	Warning	Causes serious eye irritation	Vapor and liquid stimulates an eye (HSDB (2005)), and obstacle of the recovery of a grade 5 (the highest grade 10) by the study of the rabbit (HSDB (2005)). So it were set to Category 2A-2B. Since it is unknown about recovery period, subdivide Category cannot be classificationed. (It is more desirable to be set as 2A from a viewpoint of safety, when subdivide Category needs to be performed by display etc.)
4	Respiratory/skin sensitization	sensitization: Classification not possible: Skin sensitization: Classification not	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)−; (Skin sensitization)−	No data available
5	Germ cell mutagenicity	Classification not possible	-	-	-	Classification not possible due to lack of data
6	Carcinogenicity	Classification not possible	-	_	-	Classification not possible due to lack of data and reports

7		Classification not possible	-	-		Classification not possible due to lack of data
		Category 3 (respiratory tract irritation, narcotic	Health hazard	Warning	dizziness (respiratory tract	It is classified into Category 3 (respiratory irritation) based on the description that there is respiratory irritation as vapor (HSDB (2005)), it is classified into Category 3 (anesthetic action) based on the description of anesthetic action (ACGIH (2001)), and it is classified into Category 2 (central nervous) based on the description about the effect of steam exposure to dizziness, unconsciousness, and central nervous (HSDB (2005), ICSC (2003)) and it is priority 2.
9	toxicity following repeated	Classification not possible	-	-	-	Classification not possible due to lack of data
10		Classification not possible	-	-	-	No data available

## **Environmental Hazards**

- [	Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification		
		Classification not possible	-	-	-	Insufficient data available.		
		Classification not possible	-	-	-	Classification not possible due to lack of data		