## **GHS** Classification

ID1344

## CAS 2079–00–7 Physical Hazards

Date Classified: Jan. 23, 2007 (Environmental Hazards: Mar. 31, 2006)

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

Blasticidin S

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	-	1	-	Solid (GHS definition)
6 Flammable liquids	Not applicable	-	-	-	Solid (GHS definition)
	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	-	-	-	Non-pyrophoric when in contact with air at a room temperature (antibiotic of microorganism origin and non-pyrophoric structurally)
	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 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
	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)	Category 2	Skull and crossbones	Danger	Fatal if swallowed	based on the LD50 values of 55.9mg/kg (HSDB, 2004) and 16mg/kg (RTECS, 2004) in the oral administration tests, the lower value (16mg/kg) was adopted to classify the substance as Category 2.
1 Acute toxicity (dermal)	Category 5	-	Warning		It was set as Category 5 based on rat LD50 = 3100mg/kg (HSDB, 2004) and >500mg/kg (RTECS, 2004) of the dermal administration test.
<ol> <li>Acute toxicity (inhalation: gas)</li> </ol>	Not applicable	-	-	-	Solid (GHS definition)
<ol> <li>Acute toxicity (inhalation: vapour)</li> </ol>	Classification not possible	-	-	-	No data available
<ol> <li>Acute toxicity (inhalation: dust, mist)</li> </ol>	Classification not possible	-	-	-	No data available
2 Skin corrosion / irritation	Category 3	-	Warning	Causes mild skin irritation	Since there is the description that rash on the human skin is caused, that a toxic effects is acknowledged to be to the skin, and that pathologic changes is seen on membrane as well as on the skin (HSDB, 2004), it was judged that it had slight skin stimulativeness leastways, and was set to category 3.
3 Serious eye damage / eye irritation	Category 2A-2B	Exclamation mark	Warning	Causes serious eye irritation	Since there was description which stimulates the human eye (HSDB, 2004), it was set as Category 2A-2B. In addition, detailed categorization is difficult.
4 Respiratory/skin sensitization	sensitization: Classification not possible; Skin sensitization: Not	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	sensitization)-; (Skin	Respiratory sensitization: no data available. Skin sensitization: it considered as the outside of Category from the electronegative knowledge (HSDB, 2004) in a human patch examination.
5 Germ cell mutagenicity	Classification not possible	-	-	-	There is only the negative knowledge (HSDB, 2004) in an Ames test, it cannot be classified because of insufficient data
6 Carcinogenicity	Classification not possible	-	-	-	No negative impact was seen in a sudy of two−year administration to rat (chronic toxicity or carcinogenic) (HSDB, 2004), it cannot be classified since data is insufficient.
7 Toxic to reproduction	Classification not possible	_	-	_	No data available
8 Specific target organs/systemic toxicity following single exposure	Category 2 (heart)	Health hazard	Warning	May cause damage to organs (heart)	Since hypotension and arrhythmia (HSDB, 2004; RTECS, 2004) were taken up as an acute symptoms in humans, it was considered as Category 2 (heart).

	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	-		Although a negative impact was not observed in an administration (chronic toxicity or carcinogenic) study for two years in rat (HSDB, 2004), it cannot be classified because of insufficient data.
10	Aspiration hazard	Category 1	Health hazard	Danger	May be fatal if swallowed and enters airways	Category 1 because of "aspiration pneumonitis as an acute symptom in human beings." (HSDB, 2004)

## Environmental Hazards

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
11 Hazardous to the aquatic environment (acute)	Classification not possible	-	-	-	Insufficient data available.
11 Hazardous to the aquatic environment (chronic)	Classification not possible	-	-	-	Classification not possible due to lack of data