## **GHS Classification**

ID817

## Stearic acid, sodium salt

CAS 822-16-2 Physical Hazards

Date Classified: Jul. 24, 2006 (Environmental Hazards: Mar. 31, 2006)

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

Haz	ard 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	Classification not possible	-	-	_	No data available
11	Self-heating substances and mixtures	Classification not possible	-	-	-	No data available
12	Substances and mixtures, which in contact with water, emit flammable gases	Not classified	-	-	-	Stable to water (the water solubility is obtained) (Merck (13th, 2001), HSDB (2005))
13	Oxidizing liquids	Not applicable	-	-	-	Solid (GHS definition)
14	Oxidizing solids	Not applicable	_	-	_	Organic compounds containing oxygen (but not chlorine and fluorine) 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
16	Corrosive to metals	Classification not	-	-	-	Test methods applicable to solid substances are not available.

## **Health Hazards**

zard class	Classification	symbol	signal word	hazard statement	Rational for the classification		
1 Acute toxicity (oral)	Classification not possible	-	ı	-	Classification not possible due to lack of data on LD50		
1 Acute toxicity (dermal)	Classification not possible	_	ı	-	No data available		
1 Acute toxicity (inhalation: gas)	Not applicable	_	ı	-	Solid (GHS definition)		
1 Acute toxicity (inhalation: vapour)	Classification not possible	_	ı	-	No data available		
1 Acute toxicity (inhalation: dust, mist)	Classification not possible	_	ı	-	No data available		
2 Skin corrosion / irritation	Not classified	-	ı		Based on the statement that there is no irritation with the rabbit (ACGIH (2001)), it was carried out the outside of Category .		
3 Serious eye damage / eye irritation	Category 2A	Exclamation mark	Warning		Based on the statement that in the rabbit test, transient mild conjunctival hyperemia, and optical irregularities of the corneal epithelium were seen, and moderate irritation is indicated (HSDB (2005), it was set as Category 2A.		
4 Respiratory/skin sensitization	Respiratory sensitization: Classification not possible; Skin sensitization: Classification not	(Respiratory sensitization)-; (Skin	(Respiratory sensitization)-; (Skin sensitization)-	(Respiratory sensitization)-; (Skin sensitization)-	No data available		
5 Germ cell mutagenicity	Classification not possible	-	-	-	No data available		
6 Carcinogenicity	Classification not possible	-	-	_	No data available		
7 Toxic to reproduction	Classification not possible	_	-	_	No data available		

	Specific target organs/systemic toxicity following single exposure	possible	-	ı	-	It cannot classify due to the lack of information.
9	Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	ı	ı	No data available
10		Classification not possible	_	-	_	No data available

## **Environmental Hazards**

H	zard class	Classification	symbol	signal word	hazard statement	Rational for the classification	
	1 Hazardous to the aquatic environment (acute)	Category 2	-	ı	Toxic to aquatic life	Since a potential that relevant toxicity was indicated in the water solubility (3.322mg/L (PHYSPROP Database, 2005)) of this substance could not be denied from 48-hour EC50=19mg/L of Crustacea (Daphnia magna) (MOE eco-toxicity tests of chemicals, 2000), it was classified into Category 2.	
	1 Hazardous to the aquatic environment (chronic)	Category 2	Environment	ı	Toxic to aquatic life with long lasting effects	Classified into Category 2, since acute toxicity was Category 2 and supposed bio-accumulative (log Kow-4.13(PHYSPROP Database, 2005), though rapidly degrading (BOD: 83% (Existing Chemicals Safety Check Data)).	