## **GHS Classification**

ID1055

thiomersal

CAS 54-64-8 Physical Hazards

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

hysical 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	-	1	-	There are no chemical groups associated with explosive properties present in the molecules.
2	Flammable gases	Not applicable	-	ı	-	Solid (GHS definition)
١	Flammable aerosols	Not applicable	-	-	-	Not aerosol products
	Oxidizing gases	Not applicable	-	-	-	Solid (GHS definition)
5	Gases under pressure	Not applicable	-	-	-	Solid (GHS definition)
)	Flammable liquids	Not applicable	-	-	-	Solid (GHS definition)
7	Flammable solids	Classification not possible	-	-	-	No data available
8	Self-reactive substances and mixtures	Not applicable	-	İ	-	There are no chemical groups associated with explosive or self-reactive properties present in the molecule.
9	Pyrophoric liquids	Not applicable	-	ı	-	Solid (GHS definition)
10	Pyrophoric solids	Not classified	-	ı	-	Non-pyrophoric when in contact with air at a room temperature. "Stable at air" (Merck, 13th, 2001)
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	-	i	-	Stable to water (the water solubility is obtained)
13	Oxidizing liquids	Not applicable	-	-	-	Solid (GHS definition)
14	Oxidizing solids	Classification not possible	-	ı	-	No data available
15	Organic peroxides	Not applicable	-	1	-	Organic compounds containing no -0-0- structure
16	Corrosive to metals	Classification not possible	-	-	_	Test methods applicable to solid substances are not available.

## **Health Hazards**

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Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification	
1 Acute toxicity (oral)	Category 3	Skull and crossbones	Danger	Toxic if swallowed	SPECIES: Rat ENDPOINT: LD50 VALUE: 75mg/kg REFERENCE SOURCE: RTECS(2004)	
1 Acute toxicity (dermal)	Classification not possible	-	-	-	No data available	
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	-	-	-	No data available	
2 Skin corrosion / irritation	Classification not possible	-	-	-	No data available	
3 Serious eye damage / eye irritation	Category 2B	-	Warning	Causes eye irritation	Due to the description "Mild" in rabbit (RTECS (2004)), it was classified into Category 2B.	
4 Respiratory/skin sensitization	Respiratory sensitization: Classification not possible; Skin sensitization: Category1				Respiratory sensitization: no data available. Skin sensitization: in DFGOTvol.15(2001), there were several reports which showed skin sensitization in human and guinea pig, it was set to Category 1.	

- 5	5 Germ cell mutagenicity Suspected of							
3	Community	Category 2	Health hazard	Warning	causing genetic defects (state route of exposure if it is	It was set as Cateegory 2 from the positive example (RTECS (2004), HSDB (2004)) in an in vivo small core examination and chromosomal aberration test of a mouse.		
6	Carcinogenicity	Category 2	Health hazard	Warning	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	There is a report of the carcinogenicity test in rat in RTECS (2004) from Priority 2 source, uterine cancer was observed in the report, and it was being set as "Neoplastic (neoplastic)" in RTECS criteria. So it was classified into Category 2.		
7	Toxic to reproduction	Category 1B	Health hazard	Danger		It is supposed that reproductive toxicity is in California Proposition 65 (California EPA/OEHHA, 2005) as a mercury compound. It was considered as Category 1B.		
8	Specific target organs/systemic toxicity following single exposure	Category 2 (blood system, kidneys, central nervous system, skin)	Health hazard	Warning	May cause damage to organs (blood system, kidneys, central nervous system, skin) Causes damage to	The substance was classified as Category 2 (blood system, kidneys, central nervous system, skin) based on the reports (2 cases) concerning humans in HSDB(2004), a Priority 2 source reference.		
	Specific target organs/systemic toxicity following repeated exposure	Category 1 (central nervous system)	Health hazard	Danger	organs (central	In ACGIH-TLV (2004) of Priority 1 source, it is supposed that it has effect on a central nervous systems by repeated exposure of alkyl mercury compounds. It was classified into Category 1 (central nervous systems).		
10	Aspiration hazard	Classification not possible	-	-	-	No data available		

## **Environmental Hazards**

Hazard class		Classification	symbol	signal word	hazard statement	Rational for the classification		
1	1 Hazardous to the aquatic environment (acute)	Classification not possible	-	-	-	Insufficient data available.		
1	1 Hazardous to the aquatic environment (chronic)	Classification not possible	-	-	-	Classification not possible due to lack of data		