

# Materials Safety Data Sheet

09.06.2010

1. Identification of the Substance/Preparation and of the Company/undertaking

Trade name and synonyms Protein Silver-Staining-Kit	Manufacturer gelcompany GmbH Paul-Ehrlich-Straße 17 D-72076 Tübingen Emergency telephone number: +49 (0)7071 257030	
Catalogue No. 1004-14	CAS No. Prod	
Description Preparation	Area of Application: Product Use:	Industrial Application. Analytical chemistry. Research use only.

2. Composition/Information on Ingredients

Chemical family

Silver Nitrate, Sodium Carbonate, Glutaraldehyde, Formaldehyde

Appearance

Solution, no colour

Principal hazardous component(s)		CAS - No. Comp	Conc. (%)	Classification
Silver Nitrate	EC-No. 231-8539	7761-88-8	10.0	C;N R34
				R50/53
Sodium Carbonate	EC-No 207-838-8	497-19-8	25.0	R36; S22-26
Glutardialdehyde	EC-No 203-856-5	111-30-8	25.0	T,N R23/25-34-
Giutaidiaidenyde	EC-NO 203-830-3			42/43-50
				S(1/2)-26-36/37/
				39-45-61
Formaldehyde	EC-No 200-001-8	50-00-0	37.0	T,N R23/24/25-
				34-40-43
				S/1/2)-26-36/37/
				39-45-51

### 3. Hazards Identification

Routes of entry	Effects of Occupational Overexposure
Inhalation	
Eye contact	
Skin contact	
Ingestion	

### 4. First-Aid Measures

Inhalation:	Remove from exposure, obtain medical attention
Eyes:	Wash thoroughly with water for 15 min., obtain medical attention.
Skin:	Wash off with water
Ingestion:	Wash out mouth with water and if conscious give water to drink.
	Obtain medical attention at once.

# 5. Fire-Fighting Measures Extinguishing media Carbon dioxide, dry chemicals or water spray Special fire fighting procedures

Unusual fire and explosive hazards

None

None.

### 6. Accidental Release Measures

Steps to be taken if material is released or spilled

Wipe up and place in containers for disposal. Clean spill area with detergent and water.

### 7. Handling and Storage

Precautions to be taken in handling and storage etc

Store at +15°C to +25°C

### 8. Exposure Controls/Personal Protection

Exposure limit
MAK: 0.01 mg/m <sup>3</sup>
Ventilation requirements
Normal ventilation
Special personal protection equipment
None
Respiratory
Fume Hood
Eye
Safety goggles
Hand Protection
Gloves
Other clothing or equipment
None

9. Physical and Chemical Properties

Formula	Vapour pressure	Melting point
AgNO3, Na2CO3	N/A	N/A
C5H8O2	0.27 hPa	-6 °C
CH2O	1.3 hPa	-117°c
Boilling point 760 mm Hg	Molecular weight	Flash point
95°C-100°C	AgNO3 169.9; Na2CO3 106.0	N/A
	C5H8O2 100.1,	> 100°C,
	CH2O 30.0	> 62°C
Specific gravity	Solubility in water (at 20° C)	
	AgNO3 170 g/l; Na2CO3 220 g/l	
	C5H8O2, CH2O soluble	

10.Stability and Reactivity

Stability (normal conditions)	Hazardous polymerization	Conditions to avoid	
Stable	Will Not Occur	None	
Incompatibility materials to avoid			
Avoid contact with reducing and oxidising agents			
Hazardous decomposition produ	cts		

N/A.

### 11.Toxicological Information

**Toxicity Information** 

Silver nitrate LD50 rat (oral) 1173 mg/kg; Sodium Carbonate LD50 dto 4090 mg/kg Glutaraldehyde LD50 dto 134 mg/kg, Formaldehyde LD50 dto 800 mg/kg

### 12.Ecological Information

Hazardous to waters

## 13.Disposal Considerations

Waste disposat method

Dispose as per local, state or federal regulations

### 14.Transport Information

UN-No 1493 / 2922 / 2209	ADR/RID 8 / 5.1	Class	Compound No	Packing Group
Dangerous goods				
Yes				

### 15.Regulatory Information

See point 2. Classification

### 16.Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Enquiries regarding MSDS Content should be directed to: **gelcompany office.** 

For research use only. Not for drug, household or any other use.

DIN M-1004-14-10