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### 1 Identification

· Product identifier

· Trade name: ANTIGEN PRESERVE SOLUTION VII

· Article number: 1227SK

· Application of the substance / the mixture Laboratory chemicals

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Electron Microscopy Sciences

1560 Industry Road USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: sgkcck@aol.com www.emsdiasum.com

· Information department: Product safety department

· Emergency telephone number:

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### 2 Hazard(s) identification

· Classification of the substance or mixture



GHS06 Skull and crossbones

Acute Toxicity - Oral 2 H300 Fatal if swallowed.

Acute Toxicity - Dermal 3 H311 Toxic in contact with skin.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



GHS06

- · Signal word Danger
- · Hazard-determining components of labeling:

ethanediol

Polyvinylpyrolidone

· Hazard statements

Fatal if swallowed.

Toxic in contact with skin.

· Precautionary statements

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves / protective clothing.

If swallowed: Immediately call a poison center/doctor.

Specific treatment (see on this label).

Rinse mouth.

If on skin: Wash with plenty of water.

Call a poison center/doctor if you feel unwell.

Take off immediately all contaminated clothing and wash it before reuse.

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Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 3Fire = 1Reactivity = 0

· HMIS-ratings (scale 0 - 4)



3 Health = 3Fire = 1

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable. · vPvB: Not applicable.

### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:			
107-21-1	ethanediol	>2.5-≤10%	
	Polyvinylpyrolidone	≤2.5%	

#### 4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Do not induce vomiting; immediately call for medical help.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.

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- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

<i>PAC-1:</i>		
107-21-	l ethanediol	30 ppm
	Polyvinylpyrolidone	51 mg/m³
7778-77-0	potassium dihydrogenorthophosphate	9.6 mg/m <sup>2</sup>
<i>PAC-2:</i>		
107-21-	l ethanediol	150 ppm
	Polyvinylpyrolidone	560 mg/m <sup>2</sup>
7778-77-0	potassium dihydrogenorthophosphate	110 mg/m <sup>2</sup>
<i>PAC-3</i> :		
107-21-1	l ethanediol	900 ppm
	Polyvinylpyrolidone	20,000 mg/m <sup>2</sup>
7778-77-0	potassium dihydrogenorthophosphate	630 mg/m <sup>3</sup>

### 7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

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### 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

#### 107-21-1 ethanediol

TLV Short-term value: 10\*\* mg/m³, 50\* ppm Long-term value: 25\* ppm \*vapor fraction: \*\*inh. fraction, aerosol only, A4

WEEL I(2)

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Goggles recommended during refilling.

### 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid

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Color: Odor Characteristic Odor threshold: Not determined.  -pH-value at 20 °C (68 °F): 7  - Change in condition Melting point/Melting range: 100 °C (212 °F)  - Flash point: 111 °C (231.8 °F)  - Flash point: 111 °C (231.8 °F)  - Flammability (solid, gaseous): Not flammable.  - Ignition temperature: 410 °C (770 °F)  - Decomposition temperature: Not determined.  - Auto igniting: Product is not selfigniting.  - Danger of explosion: Product does not present an explosion hazard.  - Explosion limits:  Lower: 3.2 Vol %  - Upper: 33 Vol %  - Vapor pressure at 20 °C (68 °F): 23 hPa (17.3 mm Hg)  - Density at 20 °C (68 °F): 1.05545-1.05743 g/cm³ (8.80773-8.82425 lbs/gal)  - Not determined.  - Vapor density Not determined.  - Vapor density Not determined.  - Solubility in / Miscibility with Water: Fully miscible.  - Partition coefficient (n-octanol/water): Not determined.  - Viscosity: Not determined.  -			(Contd. of page
Odor threshold:  PH-value at 20 °C (68 °F):  PChange in condition Melting point/Melting range: Boiling point/Boiling range: 100 °C (212 °F)  Flash point:  111 °C (231.8 °F)  Flammability (solid, gaseous):  Not flammable.  Ignition temperature:  410 °C (770 °F)  Decomposition temperature:  Not determined.  Auto igniting:  Product is not selfigniting.  Danger of explosion:  Explosion limits:  Lower:  Upper:  3.2 Vol % Upper:  33 Vol %  Vapor pressure at 20 °C (68 °F):  23 hPa (17.3 mm Hg)  Density at 20 °C (68 °F):  1.05545-1.05743 g/cm² (8.80773-8.82425 lbs/gal)  Relative density  Not determined.  Vapor density  Not determined.  Solubility in / Miscibility with Water:  Partition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Kinematic:  Not determined.  Not determined.  Solubility in coefficient (n-octanol/water): Not determined.  Not determined.  Solubility in coefficient (n-octanol/water): Not determined.	Color:	Colorless	
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Solvent content:  Water: 87.0 %  VOC content: 0.00 % 0.0 g/l / 0.00 lb/gal  Solids content: 1.0 %			
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0.0 g/l / 0.00 lb/gal         Solids content:       1.0 %			
Solids content: 1.0 %	VOC content:		
		0.0 g/l / 0.00 lb/gal	
· Other information No further relevant information available.	Solids content:	1.0 %	
	· Other information	No further relevant information available.	-

### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.

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· Hazardous decomposition products: No dangerous decomposition products known.

### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Toxic

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Polyvinylpyrolidone

3

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety Health Administration)

None of the ingredients is listed.

### 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

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 $\cdot \textbf{Recommended cleansing agent:} \ Water, if necessary with cleansing agents.$ 

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Transport information	
UN-Number DOT, ADR, IMDG, IATA	UN2810
UN proper shipping name DOT ADR IMDG, IATA	Toxic, liquids, organic, n.o.s. (Polyvinylpyrolidone) 2810 TOXIC LIQUID, ORGANIC, N.O.S. (Polyvinylpyrolidone) TOXIC LIQUID, ORGANIC, N.O.S. (Polyvinylpyrolidone)
Transport hazard class(es)	
DOT	
Class	6.1 Toxic substances
Ciass Label	6.1 Toxic substances
ADR, IMDG, IATA	
Class Label	6.1 Toxic substances 6.1
Packing group DOT, ADR, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Toxic substances 60 F-A,S-A B
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
ADR	
Excepted quantities (EQ)	Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml

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· IMDG
· Limited quantities (LQ)
· Excepted quantities (EQ)
I00 ml
Code: E4

Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation": UN 2810 TOXIC LIQUID, ORGANIC, N.O.S.

(POLYVINYLPYROLIDONE), 6.1, II

### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

107-21-1 ethanediol

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

- · Hazardous Air Pollutants
- 107-21-1 ethanediol
- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

107-21-1 ethanediol

- · Carcinogenic categories
- · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

107-21-1 ethanediol

A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



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#### Trade name: ANTIGEN PRESERVE SOLUTION VII

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· Signal word Danger

#### · Hazard-determining components of labeling:

ethanediol

*Polyvinylpyrolidone* 

· Hazard statements

Fatal if swallowed.

Toxic in contact with skin.

#### · Precautionary statements

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves / protective clothing.

*If swallowed: Immediately call a poison center/doctor.* 

Specific treatment (see on this label).

Rinse mouth.

If on skin: Wash with plenty of water.

Call a poison center/doctor if you feel unwell.

Take off immediately all contaminated clothing and wash it before reuse.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Contact:
- · Date of preparation / last revision 10/05/2022 / -
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Toxicity - Oral 2: Acute toxicity - Category 2 Acute Toxicity - Dermal 3: Acute toxicity - Category 3

-US