Printing date 11/16/2022

Reviewed on 11/16/2022

### **1** Identification

- · Product identifier
- · Trade name: TISSUE FREEZING MEDIUM YELLOW
- · Article number: 72592-Y, 72593-Y
- · 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 <u>CCN7661</u> 1-703-527-3887

### 2 Hazard(s) identification

- · Classification of the substance or mixture
- Eye Irritation 2B H320 Causes eye irritation.
- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms Void
- · Signal word Warning
- · Hazard statements
- Causes eye irritation.
- · Precautionary statements
- Wash thoroughly after handling.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.
- · Classification system:
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)

HEALTH $\bigcirc$ Health = 0FIRE1Fire = 1REACTIVITY0Reactivity = 0

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

(Contd. on page 2)

Printing date 11/16/2022

Reviewed on 11/16/2022

Trade name: TISSUE FREEZING MEDIUM YELLOW

(Contd. of page 1)

>10-525%

### 3 Composition/information on ingredients

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

25322-68-3 Polyethylene glycol

### 4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- 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.
- · 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). 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

| • PAC-1:                       |                         |
|--------------------------------|-------------------------|
| 25322-68-3 Polyethylene glycol | 30 mg/m <sup>3</sup>    |
| · PAC-2:                       |                         |
| 25322-68-3 Polyethylene glycol | 1,300 mg/m <sup>3</sup> |
|                                | (Contd. on page 3)      |

Printing date 11/16/2022

Reviewed on 11/16/2022

#### Trade name: TISSUE FREEZING MEDIUM YELLOW

(Contd. of page 2)

 $7,700 \text{ mg/m}^3$ 

### • PAC-3:

25322-68-3 Polyethylene glycol

### 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: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

### 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:

25322-68-3 Polyethylene glycol

WEEL Long-term value: 10 mg/m<sup>3</sup> (H); MW>200

• 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. Avoid contact with the eyes. 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:

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  $\cdot$  **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.

(Contd. on page 4)

US -

Printing date 11/16/2022

Reviewed on 11/16/2022

(Contd. of page 3)

### Trade name: TISSUE FREEZING MEDIUM YELLOW

• Eye protection:



Tightly sealed goggles

#### 9 Physical and chemical properties · Information on basic physical and chemical properties · General Information · Appearance: Form: Viscous Color: Yellow · Odor: *Characteristic* · Odor threshold: Not determined. 4-6 · *pH*-value at 20 °C (68 °F): · Change in condition 0 °C (32 °F) Melting point/Melting range: 100 °C (212 °F) **Boiling point/Boiling range:** Not applicable. · Flash point: Not flammable. · Flammability (solid, gaseous): · Decomposition temperature: Not determined. • Auto igniting: Product is not selfigniting. · Danger of explosion: Product does not present an explosion hazard. · Explosion limits: Lower: Not determined. Upper: Not determined. · Vapor pressure at 20 °C (68 °F): 23 hPa (17.3 mm Hg) Not determined. · Density: · Relative density Not determined. · Vapor density Not determined. · Evaporation rate Not determined. · Solubility in / Miscibility with Fully miscible. Water: · Partition coefficient (n-octanol/water): Not determined. · Viscosity: Not determined. Dynamic: Not determined. Kinematic: · Solvent content: Water: 72.0 % **VOC** content: 0.00 % 0.0 g/l / 0.00 lb/gal 0.0 % Solids content: (Contd. on page 5)

- US

Printing date 11/16/2022

Reviewed on 11/16/2022

#### Trade name: TISSUE FREEZING MEDIUM YELLOW

(Contd. of page 4)

• 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.
- · 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: Irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· 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.

(Contd. on page 6)

US

Printing date 11/16/2022

Reviewed on 11/16/2022

(Contd. of page 5)

Trade name: TISSUE FREEZING MEDIUM YELLOW

• 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:
- $\cdot \textit{Recommendation: Disposal must be made according to official regulations.}$
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

| 14 Transport information   |                          |
|--|--------------------------|
| · UN-Number<br>· DOT, ADR, IMDG, IATA                                  | Void                     |
| · UN proper shipping name<br>· DOT, ADR, IMDG, IATA                    | Void                     |
| · Transport hazard class(es)   |                          |
| · DOT, ADR, ADN, IMDG, IATA  |                          |
| · Class  | Void                     |
| · Packing group<br>· DOT, ADR, IMDG, IATA                              | Void                     |
| · Environmental hazards:   | Not applicable.          |
| · Special precautions for user   | Not applicable.          |
| • Transport in bulk according to Annex<br>MARPOL73/78 and the IBC Code | II of<br>Not applicable. |
| · UN ''Model Regulation'':   | Void                     |

## **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):

None of the ingredients is listed.

### · TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

#### · Hazardous Air Pollutants

None of the ingredients is listed.

(Contd. on page 7)

US

Printing date 11/16/2022

Reviewed on 11/16/2022

#### Trade name: TISSUE FREEZING MEDIUM YELLOW

(Contd. of page 6)

| · 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:

None of the ingredients is listed.

#### · Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value)

None of the ingredients is listed.

· 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* Void

- · Signal word Warning
- · Hazard statements

Causes eve irritation.

- · Precautionary statements
- Wash thoroughly after handling.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

· 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 11/16/2022 / -

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

(Contd. on page 8)

<sup>·</sup> Abbreviations and acronyms:

Printing date 11/16/2022

Reviewed on 11/16/2022

Trade name: TISSUE FREEZING MEDIUM YELLOW

REL: Recommended Exposure Limit Eye Irritation 2B: Serious eye damage/eye irritation – Category 2B (Contd. of page 7)

US