1 Identification

· Product identifier
· Trade name: Grid Coating Pen For TEM; Coat Quick "G"
· Article number: 70624
· 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: sgkck@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
   The product is not classified, according to the Globally Harmonized System (GHS).

· Label elements
   · GHS label elements Void
   · Hazard pictograms Void
   · Signal word Void
   · Hazard statements Void
   · Classification system:
     · NFPA ratings (scale 0 - 4)
       Health = 0 Fire = 0 Reactivity = 0
     · HMIS-ratings (scale 0 - 4)
       HEALTH 0 Health = 0
       FIRE 0 Fire = 0
       REACTIVITY 0 Reactivity = 0

· 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: Void

(Contd. on page 2)
4 First-aid measures

- Description of first aid measures
  - General information: No special measures required.
  - 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.
  - 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: No special measures required.
- Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 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:
    - None of the ingredients is listed.
  - PAC-2:
    - None of the ingredients is listed.
  - PAC-3:
    - None of the ingredients is listed.

7 Handling and storage

- Handling:
- Precautions for safe handling: No special measures required.
- 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.
Trade name: Grid Coating Pen For TEM; Coat Quick "G"

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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Personal protective equipment:
  - General protective and hygienic measures:
The usual precautionary measures for handling chemicals should be followed.
  - Breathing equipment: Not required.
  - 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
  - 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
    - Color: Colorless
  - Odor: Solvent-like
  - Odor threshold: Not determined.
- pH-value: Not determined.
- Change in condition
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: 80 °C (176 °F)
- Flash point: Not applicable.
- Flammability (solid, gaseous): Not flammable.
- Decomposition temperature: Not determined.
- Auto igniting: Product is not selfigniting.
Trade name: Grid Coating Pen For TEM; Coat Quick "G"

### 46.2.1

- **Danger of explosion:** Product does not present an explosion hazard.
  - **Explosion limits:**
    - Lower: Not determined.
    - Upper: Not determined.
  - **Vapor pressure:** Not determined.
  - **Density at 20 °C (68 °F):** 0.8 g/cm³ (6.676 lbs/gal)
  - **Relative density:** Not determined.
  - **Vapor density:** Not determined.
  - **Evaporation rate:** Not determined.
  - **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.
  - **Partition coefficient (n-octanol/water):** Not determined.
  - **Viscosity:**
    - Dynamic: Not determined.
    - Kinematic: Not determined.
  - **Solvent content:**
    - **VOC content:** 0.00 %
      - 0.0 g/l / 0.00 lb/gl
  - **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: No irritating effect.
    - **Sensitization:** No sensitizing effects known.
  - **Additional toxicological information:**
    - The product is not subject to classification according to internally approved calculation methods for preparations:
      - When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- **Carcinogenic categories**
  - **IARC (International Agency for Research on Cancer)**
    - 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: Not known to be hazardous to water.
  - 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: Smaller quantities can be disposed of with household waste.
- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

- Environmental hazards: Not applicable.
- Special precautions for user: Not applicable.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- 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):
  - None of the ingredients is listed.
Trade name: Grid Coating Pen For TEM; Coat Quick “G”

- **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 established by ACGIH)**
    - None of the ingredients is listed.
  - **NIOSH-Ca (National Institute for Occupational Safety and Health)**
    - None of the ingredients is listed.

- **GHS label elements** Void
  - **Hazard pictograms** Void
  - **Signal word** Void
  - **Hazard statements** Void
  - **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.

- **Date of preparation / last revision** 07/10/2018 / -
- **Abbreviations and acronyms:**
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - 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
1 Identification

- Product identifier
  - Trade name: Grid Coating Pen For TEM; Coat Quick "G"
  - Article number: 70624
- Relevant identified uses of the substance or mixture and uses advised against
  No further relevant information available.
- 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: sgkck@aol.com
    www.emsdiasum.com
  - ProSciTech Pty Ltd
    11 Carlton Street, Kirwan QLD 4817 Australia
    Telephone Number: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)
    Emergency Contact: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)
    Website: ems.prosciotech.com
  - Emgrid Australia Pty. Ltd.
    P.O. Box 118
    The Patch VIC 3792
    Australia
    Tel: 03 9752 1785
    Fax: 03 9752 1784
    Website: www.emgrid.com.au
- Further information obtainable from: 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
  The product is not classified, according to the Globally Harmonised System (GHS).
- Label elements
  - GHS label elements Void
  - Hazard pictograms Void
  - Signal word Void
  - Hazard statements Void
  - Other hazards
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

3 Composition and Information on Ingredients

- Chemical characterisation: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.
- Dangerous components: Void

(Contd. on page 2)
4 First Aid Measures

- Description of first aid measures
  - General information: No special measures required.
  - 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.
  - 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 extinguishing methods suitable to surrounding conditions.

- 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: No special measures required.

- Methods and material for containment and cleaning up:
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

- 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.

7 Handling and Storage

- Handling:
  - Precautions for safe handling: No special measures required.

- Information about fire - and explosion protection: 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.

8 Exposure controls and personal protection

- Additional information about design of technical facilities: No further data; see item 7.
Control parameters
Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information: The lists valid during the making were used as basis.

Exposure controls
Personal protective equipment:
General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
Respiratory protection: Not required.
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

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
Colour: Colourless
Odour: Solvent-like
Odour threshold: Not determined.

pH-value: Not determined.
Change in condition
Melting point/freezing point: Undetermined.
Initial boiling point and boiling range: 80 °C

Flash point: Not applicable.
Flammability (solid, gas): Not applicable.
Decomposition temperature: Not determined.
Auto-ignition temperature: Product is not selfigniting.
Explosive properties: Product does not present an explosion hazard.
Explosion limits:
Lower: Not determined.
Upper: Not determined.
Vapour pressure: Not determined.
Safety Data Sheet
according to WHS Regulations

Printing date 10.07.2018
Revision: 10.07.2018

Trade name: Grid Coating Pen For TEM; Coat Quick "G"

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Density at 20 °C</td>
<td>0.8 g/cm³</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solubility in / Miscibility with water</td>
<td>Not miscible or difficult to mix.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Dynamic:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Kinematic:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solvent content:</td>
<td>VOC (EC) 0.00 %</td>
</tr>
<tr>
<td>Other information:</td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

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:
  - Skin corrosion/irritation: No irritant effect.
  - Serious eye damage/irritation: No irritating effect.
  - Respiratory or skin sensitisation: No sensitising effects known.
- Additional toxicological information:
  The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological Information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- Behaviour in environmental systems:
- Bioaccumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.
- Additional ecological information:
- General notes: Not known to be hazardous to water.
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: Smaller quantities can be disposed of with household waste.
· Uncleaned packaging:
  Recommendation: Disposal must be made according to official regulations.

14 Transport information
· Environmental hazards: Not applicable.
· Special precautions for user: Not applicable.
· Transport in bulk according to Annex II of Marpol and the IBC Code: Not applicable.

15 Regulatory information
· Safety, health and environmental regulations/legislation specific for the substance or mixture
  Australian Inventory of Chemical Substances: None of the ingredients is listed.
  Standard for the Uniform Scheduling of Medicines and Poisons: None of the ingredients is listed.
  GHS label elements: Void
  Hazard pictograms: Void
  Signal word: Void
  Hazard statements: Void
  Directive 2012/18/EU: None of the ingredients is listed.
  Named dangerous substances - ANNEX I: None of the ingredients is listed.
  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.

Abbreviations and acronyms:
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)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
1 Identification

· Product identifier
· Trade name: Grid Coating Pen For TEM; Coat Quick "G"
· Article number: 70624
· 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: sgkck@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
  The product is not classified, according to the Globally Harmonized System (GHS).

· Label elements
  · GHS label elements Void
  · Hazard pictograms Void
  · Signal word Void
  · Hazard statements Void
  · Classification system:

  · NFPA ratings (scale 0 - 4)

    Health = 0
    Fire = 0
    Reactivity = 0

  · HMIS-ratings (scale 0 - 4)

    HEALTH 0 Health = 0
    FIRE 0 Fire = 0
    REACTIVITY 0 Reactivity = 0

3 Composition/information on ingredients

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

4 First-aid measures

· Description of first aid measures
· General information: No special measures required.
· After inhalation: Supply fresh air; consult doctor in case of complaints.
Trade name: Grid Coating Pen For TEM; Coat Quick "G"

- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- 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: No special measures required.
- Methods and material for containment and cleaning up:
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 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.

7 Handling and storage

- Handling:
  - Precautions for safe handling: No special measures required.
- 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.

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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists that were valid during the creation were used as basis.
9 Physical and chemical properties

- Information on basic physical and chemical properties
- General Information
  - Appearance:
    - Form: Liquid
    - Color: Colorless
  - Odor: Solvent-like
  - Odor threshold: Not determined.
- pH-value: Not determined.
- Change in condition
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: 80 °C
- Flash point: Not applicable.
- Flammability (solid, gaseous): Not flammable.
- 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: Not determined.
- Density at 20 °C: 0.8 g/cm³
- Relative density: Not determined.
- Vapor density: Not determined.
- Evaporation rate: Not determined.
Trade name: Grid Coating Pen For TEM; Coat Quick "G"

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: No irritating effect.
  - Sensitization: No sensitizing effects known.
- Additional toxicological information:
  The product is not subject to classification according to internally approved calculation methods for preparations:
  When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- 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.

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: Not known to be hazardous to water.
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: Smaller quantities can be disposed of with household waste.
· Uncleaned packagings:
  Recommendation: Disposal must be made according to official regulations.

14 Transport information
· Environmental hazards: Not applicable.
· Special precautions for user Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

15 Regulatory information
· Safety, health and environmental regulations/legislation specific for the substance or mixture
  · 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):
      None of the ingredients is listed.
  · Canadian substance listings:
    · Canadian Domestic Substances List (DSL)
      None of the ingredients is listed.
    · Canadian Ingredient Disclosure list (limit 0.1%)
      None of the ingredients is listed.
    · Canadian Ingredient Disclosure list (limit 1%)
      None of the ingredients is listed.
  · GHS label elements Void
  · Hazard pictograms Void
  · Signal word Void
  · Hazard statements Void
  · 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.

· Date of preparation / last revision 07/10/2018 / -

· Abbreviations and acronyms:
  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)
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
  - Trade name: Grid Coating Pen For TEM; Coat Quick "G"
  - Article number: 70624

- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  - No further relevant information available.
  - Application of the substance / the mixture: Laboratory chemicals

- **1.3 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: sgkck@aol.com
  - www.emsdiasum.com

- **Further information obtainable from:** Product safety department

- **1.4 Emergency telephone number:**
  - ChemTrec 1-800-424-9300 Contract CCN7661
  - 1-703-527-3887

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
  - Classification according to Regulation (EC) No 1272/2008
  - The product is not classified, according to the CLP regulation.

- **2.2 Label elements**
  - Labelling according to Regulation (EC) No 1272/2008
  - Hazard pictograms: Void
  - Signal word: Void
  - Hazard statements: Void

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

**SECTION 3: Composition/information on ingredients**

- **3.2 Chemical characterisation: Mixtures**
  - Description: Mixture of substances listed below with nonhazardous additions.
  - Dangerous components: Void
  - Additional information: For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
  - General information: No special measures required.
  - 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.
  - After swallowing: If symptoms persist consult doctor.

- **4.2 Most important symptoms and effects, both acute and delayed**
  - No further relevant information available.

(Contd. on page 2)
4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
· Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture No further relevant information available.

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Not required.

6.2 Environmental precautions: No special measures required.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling No special measures required.
· Information about fire - and explosion protection: No special measures required.

7.2 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.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters
· Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
· Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls
· Personal protective equipment:
· General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
· Respiratory protection: Not required.
· 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

- **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 cannot 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

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
  - **General Information**
    - **Appearance:**
      - Form: Liquid
      - Colour: Colourless
      - Odour: Solvent-like
      - Odour threshold: Not determined.
    - **pH-value:** Not determined.
    - **Change in condition**
      - Melting point/freezing point: Undetermined.
      - Initial boiling point and boiling range: 80 °C
    - **Flash point:** Not applicable.
    - **Flammability (solid, gas):** Not applicable.
    - **Decomposition temperature:** Not determined.
    - **Auto-ignition temperature:** Product is not selfigniting.
    - **Explosive properties:** Product does not present an explosion hazard.
    - **Explosion limits:**
      - Lower: Not determined.
      - Upper: Not determined.
    - **Vapour pressure:** Not determined.
    - **Density at 20 °C:** 0.8 g/cm³
    - **Relative density**
      - Not determined.
    - **Vapour density**
      - Not determined.
    - **Evaporation rate**
      - Not determined.
    - **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
    - **Partition coefficient: n-octanol/water:** Not determined.
    - **Viscosity:**
      - Dynamic: Not determined.
      - Kinematic: Not determined.
Trade name: Grid Coating Pen For TEM; Coat Quick "G"

- Solvent content:
  - VOC (EC) 0.00 %
- 9.2 Other information
  - No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity
  - No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
  - No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions
  - No dangerous reactions known.
- 10.4 Conditions to avoid
  - No further relevant information available.
- 10.5 Incompatible materials:
  - No further relevant information available.
- 10.6 Hazardous decomposition products:
  - No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity
  - Based on available data, the classification criteria are not met.
- Primary irritant effect:
  - Skin corrosion/irritation
  - Based on available data, the classification criteria are not met.
- Serious eye damage/irritation
  - Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation
  - Based on available data, the classification criteria are not met.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
  - Germ cell mutagenicity
  - Based on available data, the classification criteria are not met.
  - Carcinogenicity
  - Based on available data, the classification criteria are not met.
- Reproductive toxicity
  - Based on available data, the classification criteria are not met.
- STOT-single exposure
  - Based on available data, the classification criteria are not met.
- STOT-repeated exposure
  - Based on available data, the classification criteria are not met.
- Aspiration hazard
  - Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability
  - No further relevant information available.
- 12.3 Bioaccumulative potential
  - No further relevant information available.
- 12.4 Mobility in soil
  - No further relevant information available.

- Additional ecological information:
  - General notes: Not known to be hazardous to water.
- 12.5 Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- 12.6 Other adverse effects
  - No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Recommendation
  - Smaller quantities can be disposed of with household waste.
Trade name: Grid Coating Pen For TEM; Coat Quick "G"

(Contd. of page 4)

SECTION 14: Transport information

- 14.5 Environmental hazards: Not applicable.
- 14.6 Special precautions for user: Not applicable.
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Not applicable.

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Directive 2012/18/EU
  - Named dangerous substances - ANNEX I: None of the ingredients is listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

- Abbreviations and acronyms:
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - 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)
  - VOC: Volatile Organic Compounds (USA, EU)
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
RUBRIEK 1: Identificatie van de stof of het mengsel en van de vennootschap/onderneming

1.1 Productidentificatie

· Handelsnaam: Grid Coating Pen For TEM; Coat Quick "G"
· Artikelnummer: 70624

1.2 Relevant geïdentificeerd gebruik van de stof of het mengsel en ontraden gebruik

Geen verdere relevante informatie verkrijgbaar.

1.3 Details betreffende de verstrekker van het veiligheidsinformatieblad

· Fabrikant/leverancier:
  Electron Microscopy Sciences
  1560 Industry Road
  USA-Hatfield, PA 19440
  Tel: 215-412-8400  Fax: 215-412-8450
  email: sgkck@aol.com
  www.emsdiasum.com

· Inlichtingengevende sector: Product safety department

1.4 Telefoonnummer voor noodgevallen:

ChemTrec 1-800-424-9300 Contract CCN7661
1-703-527-3887

RUBRIEK 2: Identificatie van de gevaren

2.1 Indeling van de stof of het mengsel

· Indeling overeenkomstig Verordening (EG) nr. 1272/2008
  Het product is niet geclassificeerd volgens de CLP-verordening.

2.2 Etiketteringselementen

· Etikettering overeenkomstig Verordening (EG) nr. 1272/2008 Niet van toepassing
· Gevaarlijk pictogrammen Niet van toepassing
· Signaalwoord Niet van toepassing
· Gevaarwaarschuwingen Niet van toepassing

2.3 Andere gevaren

· Resultaten van PBT- en zPzB-beoordeling
  · PBT: Niet bruikbaar.
  · zPzB: Niet bruikbaar.

RUBRIEK 3: Samenstelling en informatie over de bestanddelen

3.2 Chemische karakterisering: Mengsels

· Beschrijving: Mengsel van na elkaar aangevoerde stoffen met ongevaarlijke bijmengingen.

· Gevaarlijke inhoudstoffen: Niet van toepassing

· Aanvullende gegevens:
  De woordelijke inhoud van de opgegeven aanwijzingen inzake de mogelijke gevaren is te vinden in hoofdstuk 16.

(Vervolg op blz. 2)
Veiligheidsinformatieblad
volgens 1907/2006/EG, Artikel 31

Handelsnaam: Grid Coating Pen For TEM; Coat Quick "G"

RUBRIEK 4: Eerstehulpmaatregelen

4.1 Beschrijving van de eerstehulpmaatregelen
- Algemene informatie: Geen speciale maatregelen noodzakelijk.
- Na het inademen: Frisse lucht toedienen; bij klachten arts ontbieden.
- Na huidcontact: Over het algemeen is het produkt niet prikkelend voor de huid.
- Na oogcontact: Ogen bij geopend ooglid meerdere minuten met stromend water spoelen.
- Na inslikken: Als de klachten niet minderen, een arts raadplegen.

4.2 Belangrijkste acute en uitgestelde symptomen en effecten
Geen verdere relevante informatie verkrijgbaar.

4.3 Vermelding van de vereiste onmiddellijke medische verzorging en speciale behandeling
Geen verdere relevante informatie verkrijgbaar.

RUBRIEK 5: Brandbestrijdingsmaatregelen

5.1 Blusmiddelen
- Geschikte blusmiddelen: Brandblusmaatregelen op omgeving afstemmen.

5.2 Speciale gevaren die door de stof of het mengsel worden veroorzaakt
Geen verdere relevante informatie verkrijgbaar.

5.3 Advies voor brandweerlieden
- Speciale beschermende kleding: Geen bijzondere maatregelen nodig.

RUBRIEK 6: Maatregelen bij het accidenteel vrijkomen van de stof of het mengsel

6.1 Persoonlijke voorzorgsmaatregelen, beschermende uitrusting en noodprocedures
Niet nodig.

6.2 Milieuvoorzorgsmaatregelen: Geen speciale maatregelen noodzakelijk.

6.3 Insluitings- en reinigingsmethoden en -materiaal:
Met vloeistofbindend materiaal (zand, bergmeel, zuurbinder, universele binder, zaagmeel) opnemen.

6.4 Verwijzing naar andere rubrieken
Informatie inzake veilig gebruik - zie hoofdstuk 7.
Informatie inzake persoonlijke beschermingsuitrusting - zie hoofdstuk 8.
Informatie inzake berging - zie hoofdstuk 13.

RUBRIEK 7: Hantering en opslag

7.1 Voorzorgsmaatregelen voor het veilig hanteren van de stof of het mengsel
Geen bijzondere maatregelen noodzakelijk.

7.2 Voorwaarden voor een veilige opslag, met inbegrip van incompatibele producten
Opslag:
- Eisen ten opzichte van opslagruimte en tanks: Geen bijzondere eisen.
- Informatie m.b.t. gezamenlijke opslag: Niet noodzakelijk.
- Verdere inlichtingen over eisen m.b.t. de opslag: Geen.

7.3 Specifiek eindgebruik
Geen verdere relevante informatie verkrijgbaar.

RUBRIEK 8: Maatregelen ter beheersing van blootstelling/persoonlijke bescherming

- Aanvullende gegevens m.b.t. de inrichting van technische installaties: Geen aanvullende gegevens. Zie 7.

(Vervolg op blz. 3)
8.1 Controleparameters

- Bestaddelen met grenswaarden die m.b.t. de werkrui in acht genomen moeten worden:
  Het produkt bevat geen relevante hoeveelheden van stoffen, die met betrekking tot de werkplaatsen, qua grenswaarden gecontroleerd moeten worden.
- Aanvullende gegevens: Als basis dienen lijsten die bij opstelling geldig waren.

8.2 Maatregelen ter beheersing van blootstelling

- Persoonlijke beschermingsvoorzieningen:
  - Algemene beschermings- en gezondheidsmaatregelen:
    De gebruikelijke voorzorgsmaatregelen bij de omgang met chemicaïën moeten in acht genomen worden.
  - Ademhalingsbescherming: Niet noodzakelijk.
- Handbescherming:
  Het handschoenmateriaal moet ondoorlatend en bestand zijn tegen het product / de stof / de bereiding.
  Op grond van falende testen kan geen aanbeveling voor handschoenmateriaal voor het product / de bereiding / het chemicaliën mengsel gegeven worden.
  Kies handschoenmateriaal rekening houdend met de penetratietijden, de permeatiegraden en de degradatie.
- Handschoenmateriaal
  De keuze van een geschikte handschoen is niet alleen afhankelijk van het materiaal, maar ook van andere kwaliteitenkenmerken en verschil van fabrikant tot fabrikant. Aangezien het product uit meerdere stoffen is samengesteld, is de duurzaamheid van de handschoenmaterialen niet vooraf berekenbaar en moet derhalve voór het gebruik worden getest.
  - Doordringingstijd van het handschoenmateriaal
    De precieze penetratietijd kunt u te weten komen bij de handschoenfabrikant; houd er rekening mee.
  - Oogbescherming: Bij het omgieten is het gebruik van een veiligheidsbril aan te bevelen.

RUBRIEK 9: Fysische en chemische eigenschappen

9.1 Informatie over fysische en chemische basiseigenschappen

- Alvorende gegevens:
  - Vorm: Vloeistof
  - Kleur: Kleurloos
  - Geur: Oplosmiddelachtig
  - Geurdrempelwaarde: Niet bepaald.
  - pH-waarde: Niet bepaald.

- Toestandswitchering:
  - Smelt-/vriespunt: Niet bepaald.
  - Beginkookpunt en kooktraject: 80 °C

- Vlampunt: Niet bruikbaar.

- Ontvlambaarheid (vast, gas): Niet bruikbaar.

- Ontledingstemperatuur: Niet bepaald.

- Zelfontbrandingstemperatuur: Het produkt onbrandt niet uit zichzelf.

- Ontploffingsgevaarlijkheid:
  - Ontploffingseigenschappen: Het produkt is niet ontploffingsgevaarlijk.

- Ontploffingsgrenzen:
  - Onderste: Niet bepaald.
  - Bovenste: Niet bepaald.

- Dampspanning: Niet bepaald.
Handelsnaam: Grid Coating Pen For TEM; Coat Quick "G"

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichtheid bij 20 °C:</td>
<td>0,8 g/cm³</td>
</tr>
<tr>
<td>Relatieve dichtheid</td>
<td>Niet bepaald.</td>
</tr>
<tr>
<td>Dampdichtheid</td>
<td>Niet bepaald.</td>
</tr>
<tr>
<td>Verdampingssnelheid</td>
<td>Niet bepaald.</td>
</tr>
<tr>
<td>Oplossbaarheid in/mengbaarheid met Water</td>
<td>Niet resp. gering mengbaar.</td>
</tr>
<tr>
<td>Verdelingscoëfficiënt: n-octanol/water</td>
<td>Niet bepaald.</td>
</tr>
<tr>
<td>Viscositeit Dynamisch:</td>
<td>Niet bepaald.</td>
</tr>
<tr>
<td>Kinematisch:</td>
<td>Niet bepaald.</td>
</tr>
<tr>
<td>Oplosmiddelgehalte:</td>
<td>0,00 %</td>
</tr>
<tr>
<td>9.2 Overige informatie</td>
<td>Geen verdere relevante informatie verkrijgbaar.</td>
</tr>
</tbody>
</table>

**RUBRIEK 10: Stabiliteit en reactiviteit**
- **10.1 Reactiviteit** Geen verdere relevante informatie verkrijgbaar.
- **10.2 Chemische stabiliteit**
- **10.3 Thermische afbraak / te vermijden omstandigheden**: Geen afbraak bij gebruik volgens voorschrift.
- **10.4 Te vermijden omstandigheden** Geen verdere relevante informatie verkrijgbaar.
- **10.5 Chemisch op elkaar inwerkende materialen**: Geen verdere relevante informatie verkrijgbaar.
- **10.6 Gevaarlijke ontelingsproducten**: Geen gevaarlijke ontbindingsproducten bekend.

**RUBRIEK 11: Toxicologische informatie**
- **11.1 Informatie over toxicologische effecten**
- **Acute toxiciteit** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Primaria aanloening**
- **Huidcorrosie/-irritatie** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Ernstig oogletsel/oogirritatie** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Sensibilisatie van de luchtwegen/de huid** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **CMR-effecten (kankerverwekkendheid, mutageniteit en giftigheid voor de voortplanting)**
- **Mutageniteit in geslachtszellen** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Kankerverwekkendheid** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Giftigheid voor de voortplanting** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **STOT bij eenmalige blootstelling** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **STOT bij herhaalde blootstelling** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Gevaar bij inademing** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

**RUBRIEK 12: Ecologische informatie**
- **12.1 Toxiciteit**
- **Aquatische toxiciteit**: Geen verdere relevante informatie verkrijgbaar.
- **12.2 Persistentie en afbreekbaarheid** Geen verdere relevante informatie verkrijgbaar.
- **12.3 Bioaccumulatie** Geen verdere relevante informatie verkrijgbaar.
- **12.4 Mobielteit in de bodem** Geen verdere relevante informatie verkrijgbaar.
**Handelsnaam:** Grid Coating Pen For TEM; Coat Quick "G"

- **Verdere ecologische informatie:**
  - **Algemene informatie:** Geen gevaar voor water bekend.
  - **12.5 Resultaten van PBT- en zPzB-beoordeling**
    - PBT: Niet bruikbaar.
    - zPzB: Niet bruikbaar.
  - **12.6 Andere schadelijke effecten** Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 13: Instructies voor verwijdering

- **13.1 Afvalverwerkingsmethoden**
  - **Aanbeveling:** Kleine hoeveelheden kunnen tezamen met huisvuil gesorteerd worden.
  - **Niet gereinigde verpakkingen:**
    - **Aanbeveling:** Afvalverwijdering volgens overheidsbepalingen.

### RUBRIEK 14: Informatie met betrekking tot het vervoer

- **14.5 Milieugevaren:**
  - **Niet bruikbaar.**
- **14.6 Bijzondere voorzorgen voor de gebruiker**
  - **Niet bruikbaar.**
- **14.7 Vervoer in bulk overeenkomstig bijlage II bij Marpol en de IBC-code**
  - **Niet bruikbaar.**

### RUBRIEK 15: Regelgeving

- **15.1 Specifieke veiligheids-, gezondheids- en milieureglementen en -wetgeving voor de stof of het mengsel**
  - **SZW-lijst van kankerverwekkende stoffen**
    - geen der bestanddelen staat op de lijst.
  - **SZW-lijst van mutagene stoffen**
    - geen der bestanddelen staat op de lijst.
  - **NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Vruchtbaarheid**
    - geen der bestanddelen staat op de lijst.
  - **NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling**
    - geen der bestanddelen staat op de lijst.
  - **NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding**
    - geen der bestanddelen staat op de lijst.
  - **Richtlijn 2012/18/EU**
  - **Gevaarlijke stoffen die met naam genoemd worden - BIJLAGE I** geen der bestanddelen staat op de lijst.
  - **15.2 Chemischeveiligheidsbeoordeling:** Een chemische veiligheidsbeoordeling is niet uitgevoerd.

### RUBRIEK 16: Overige informatie

Deze gegevens zijn gebaseerd op de huidige stand van onze kennis. Zij beschrijven echter geen garantie van productiveigenschappen en vestigen geen contractuele rechtsbetrekking.

- **Afkortingen en acroniemen:**
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances

(Vervolg op blz. 6)
Handelsnaam: Grid Coating Pen For TEM; Coat Quick "G"

ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

(Vervolg van blz. 5)
RUBRIQUE 1: Identification de la substance/du mélange et de la société/l'entreprise

- 1.1 Identificateur de produit

- Nom du produit: Grid Coating Pen For TEM; Coat Quick "G"
- Code du produit: 70624

- 1.2 Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées
- Pas d'autres informations importantes disponibles.

- Emploi de la substance / de la préparation Produits chimiques pour laboratoires

- 1.3 Renseignements concernant le fournisseur de la fiche de données de sécurité
- Producteur/fournisseur:
  Electron Microscopy Sciences
  1560 Industry Road
  USA-Hatfield, PA 19440
  Tel: 215-412-8400  Fax: 215-412-8450
  email: sgkck@aol.com
  www.emsdiasum.com

- Service chargé des renseignements: Product safety department

- 1.4 Numéro d'appel d'urgence:
  ChemTrec 1-800-424-9300 Contract CCN7661
  1-703-527-3887

RUBRIQUE 2: Identification des dangers

- 2.1 Classification de la substance ou du mélange
- Classification selon le règlement (CE) n° 1272/2008 Le produit n'est pas classifié selon le règlement CLP.

- 2.2 Éléments d'étiquetage
- Étiquetage selon le règlement (CE) n° 1272/2008 néant
- Pictogrammes de danger néant
- Mention d'avertissement néant
- Mentions de danger néant

- 2.3 Autres dangers
- Résultats des évaluations PBT et vPvB
  - PBT: Non applicable.
  - vPvB: Non applicable.

RUBRIQUE 3: Composition/informations sur les composants

- 3.2 Caractérisation chimique: Mélange
- Description: Mélange des substances mentionnées à la suite avec des additifs non dangereux.
- Composants dangereux: néant
- Indications complémentaires: Pour le libellé des phrases de risque citées, se référer au chapitre 16.

RUBRIQUE 4: Premiers secours

- 4.1 Description des premiers secours
- Remarques générales: Aucune mesure particulière n'est requise.
- Après inhalation: Donner de l'air frais, consulter un médecin en cas de troubles.
- Après contact avec la peau: En règle générale, le produit n'irrite pas la peau.
- Après contact avec les yeux: Rincer les yeux, sous l'eau courante, pendant plusieurs minutes, en écartant bien les paupières.
- Après ingestion: Si les troubles persistent, consulter un médecin.

- 4.2 Principaux symptômes et effets, aigus et différés Pas d'autres informations importantes disponibles.

(suite page 2)
RUBRIQUE 5: Mesures de lutte contre l'incendie

- 5.1 Moyens d'extinction
  - Moyens d'extinction: Adapter les mesures d'extinction d'incendie à l'environnement.
- 5.2 Dangers particuliers résultant de la substance ou du mélange
  - Pas d'autres informations importantes disponibles.
- 5.3 Conseils aux pompiers
  - Equipement spécial de sécurité: Aucune mesure particulière n’est requise.

RUBRIQUE 6: Mesures à prendre en cas de dispersion accidentelle

- 6.1 Précautions individuelles, équipement de protection et procédures d’urgence
  - Pas nécessaire.
- 6.2 Précautions pour la protection de l’environnement
  - Aucune mesure particulière n’est requise.
- 6.3 Méthodes et matériel de confinement et de nettoyage:
  - Recueillir les liquides à l’aide d’un produit absorbant (sable, kieselguhr, neutralisant d’acide, liant universel, sciure).
- 6.4 Référence à d'autres rubriques
  - Afin d'obtenir des informations pour une manipulation sûre, consulter le chapitre 7.
  - Afin d'obtenir des informations sur les équipements de protection personnels, consulter le chapitre 8.
  - Afin d'obtenir des informations sur l'élimination, consulter le chapitre 13.

RUBRIQUE 7: Manipulation et stockage

- 7.1 Précautions à prendre pour une manipulation sans danger
  - Aucune mesure particulière n’est requise.
- 7.2 Conditions d’un stockage sûr, y compris d’éventuelles incompatibilités
  - Stockage:
    - Exigences concernant les lieux et conteneurs de stockage: Aucune exigence particulière.
    - Indications concernant le stockage commun: Pas nécessaire.
  - Autres indications sur les conditions de stockage: Néant.
- 7.3 Utilisation(s) finale(s) particulière(s)
  - Pas d’autres informations importantes disponibles.

RUBRIQUE 8: Contrôles de l'exposition/protection individuelle

- Indications complémentaires pour l'agencement des installations techniques:
  - Sans autre indication, voir point 7.
- 8.1 Paramètres de contrôle
  - Composants présentant des valeurs-seuil à surveiller par poste de travail:
    - Le produit ne contient pas en quantité significative des substances présentant des valeurs-seuil à surveiller par poste de travail.
  - Remarques supplémentaires:
    - Le présent document s'appuie sur les listes en vigueur au moment de son élaboration.
- 8.2 Contrôles de l'exposition
  - Équipement de protection individuel:
  - Mesures générales de protection et d'hygiène:
    - Respecter les mesures de sécurité usuelles pour l'utilisation de produits chimiques.
**Protection respiratoire**: N'est pas nécessaire.

**Protection des mains**:  
Le matériau des gants doit être imperméable et résistant au produit / à la substance / à la préparation.  
A cause du manque de tests, aucune recommandation pour un matériau de gants pour le produit / la préparation / le mélange de produits chimiques ne peut être donnée.  
Choix du matériau des gants en fonction des temps de pénétration, du taux de perméabilité et de la dégradation.

**Matériau des gants**:  
Le choix de gants appropriés dépend non seulement du matériau, mais aussi d'autres critères de qualité qui peuvent varier d'un fabricant à l'autre. Puisque le produit représente une préparation composée de plusieurs substances, la résistance des matériaux des gants ne peut pas être calculée à l'avance et doit, alors, être contrôlée avant l'utilisation.

**Temps de pénétration du matériau des gants**:  
Le temps de pénétration exact est à déterminer par le fabricant des gants de protection et à respecter.

**Protection des yeux**:  
Lunettes de protection recommandées pour le transvasement.

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**RUBRIQUE 9: Propriétés physiques et chimiques**

- **9.1 Informations sur les propriétés physiques et chimiques essentielles**

  - **Indications générales**
  - **Aspect**
    - **Forme**: Liquide
    - **Couleur**: Incolore
  - **Odeur**: De type solvanté
  - **Seuil olfactif**: Non déterminé.
  - **Valeur du pH**: Non déterminé.

  - **Changement d'état**
    - **Point de fusion/point de congélation**: Non déterminé.
    - **Point initial d'ébullition et intervalle d'ébullition**: 80 °C

  - **Point d'éclair**: Non applicable.

  - **Inflammabilité (solide, gaz)**: Non applicable.

  - **Température de décomposition**: Non déterminé.

  - **Température d'auto-inflammabilité**: Le produit ne s'enflamme pas spontanément.

  - **Propriétés explosives**: Le produit n'est pas explosif.

  - **Limites d'explosion**
    - **Inférieure**: Non déterminé.
    - **Supérieure**: Non déterminé.

  - **Pression de vapeur**: Non déterminé.

  - **Densité à 20 °C**: 0,8 g/cm³
  - **Densité relative**: Non déterminé.
  - **Densité de vapeur**: Non déterminé.
  - **Taux d'évaporation**: Non déterminé.

  - **Solubilité dans/miscibilité avec l'eau**: Pas ou peu miscible

  - **Coefficient de partage: n-octanol/eau**: Non déterminé.

  - **Viscosité**
    - **Dynamique**: Non déterminé.
RUBRIQUE 10: Stabilité et réactivité

- 10.1 Réactivité Pas d’autres informations importantes disponibles.
- 10.2 Stabilité chimique
- 10.3 Possibilité de réactions dangereuses Aucune réaction dangereuse connue.
- 10.4 Conditions à éviter Pas d’autres informations importantes disponibles.
- 10.5 Matières incompatibles: Pas d’autres informations importantes disponibles.
- 10.6 Produits de décomposition dangereux: Pas de produits de décomposition dangereux connus

RUBRIQUE 11: Informations toxicologiques

- 11.1 Informations sur les effets toxicologiques
- Toxicité aiguë Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- Effet primaire d’irritation:
  - Corrosion cutanée/irritation cutanée Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
  - Lésions oculaires graves/irritation oculaire Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
  - Sensibilisation respiratoire ou cutanée Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- Effets CMR (cancérogène, mutagène et toxique pour la reproduction)
  - Mutagénicité sur les cellules germinales Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
  - Cancérogénicité Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- Toxicité pour la reproduction Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- Toxicité spécifique pour certains organes cibles - exposition unique Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- Toxicité spécifique pour certains organes cibles - exposition répétée Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- Danger par aspiration Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

RUBRIQUE 12: Informations écologiques

- 12.1 Toxicité
  - Toxicité aquatique: Pas d’autres informations importantes disponibles.
- 12.2 Persistance et dégradabilité Pas d’autres informations importantes disponibles.
- 12.3 Potentiel de bioaccumulation Pas d’autres informations importantes disponibles.
- 12.4 Mobilité dans le sol Pas d’autres informations importantes disponibles.
- Autres indications écologiques:
  - Indications générales: Aucune pollution des eaux connue.
- 12.5 Résultats des évaluations PBT et VPVB
  - PBT: Non applicable.
  - vPvB: Non applicable.
RUBRIQUE 13: Considérations relatives à l’élimination

- 13.1 Méthodes de traitement des déchets
  - Recommandation: De petites quantités peuvent être mises en décharge avec les ordures ménagères.
- Emballages non nettoyés:
  - Recommandation: Evacuation conformément aux prescriptions légales.

RUBRIQUE 14: Informations relatives au transport

- 14.5 Dangers pour l'environnement: Non applicable.
- 14.6 Précautions particulières à prendre par l'utilisateur: Non applicable.
- 14.7 Transport en vrac conformément à l'annexe II de la convention Marpol et au recueil IBC: Non applicable.

RUBRIQUE 15: Informations relatives à la réglementation

- 15.1 Réglementations/législation particulières à la substance ou au mélange en matière de sécurité, de santé et d'environnement
  - Directive 2012/18/UE
  - Substances dangereuses désignées - ANNEXE I: Aucun des composants n’est compris.
- 15.2 Évaluation de la sécurité chimique: Une évaluation de la sécurité chimique n’a pas été réalisée.

RUBRIQUE 16: Autres informations

Ces indications sont fondées sur l'état actuel de nos connaissances, mais ne constituent pas une garantie quant aux propriétés du produit et ne donnent pas lieu à un rapport juridique contractuel.

- Acronymes et abréviations:
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - 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)
  - VOC: Volatile Organic Compounds (USA, EU)
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
Abschnitt 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

- 1.1 Produktidentifikator
  - Handelsname: Grid Coating Pen For TEM; Coat Quick "G"
  - Artikelnummer: 70624

- 1.2 Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird
  Keine weiteren relevanten Informationen verfügbar.

- 1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt
  - Hersteller/Lieferant:
    Electron Microscopy Sciences
    1560 Industry Road
    USA-Hatfield, PA 19440
    Tel: 215-412-8400  Fax: 215-412-8450
    email: sgkccx@aol.com
    www.emsdiasum.com
  - Science Services GmbH
    Unterhachinger Str. 75
    81737 München Germany
    Tel: +49(0)89 18 93 668-0
    safety@scienceservices.de
  - Deutschland: +49 (0)89 19240, 24h Giftnotruf München, www.toxinfo.org
  - Österreich: +43 1406 43 43, Gesundheit Österreich GmbH, 24 h

- 1.4 Notrufnummer:
  ChemTrec 1-800-424-9300 Contract CCN7661
  1-703-527-3887

Abschnitt 2: Mögliche Gefahren

- 2.1 Einstufung des Stoffs oder Gemischs

- 2.2 Kennzeichnungselemente
  - Kennzeichnung gemäß Verordnung (EG) Nr. 1272/2008 entfällt
  - Gefahrenpiktogramme entfällt
  - Signalwort entfällt
  - Gefahrenhinweise entfällt

- 2.3 Sonstige Gefahren
  - Ergebnisse der PBT- und vPvB-Beurteilung
  - PBT: Nicht anwendbar.
  - vPvB: Nicht anwendbar.

Abschnitt 3: Zusammensetzung/Angaben zu Bestandteilen

- 3.2 Chemische Charakterisierung: Gemische
  - Beschreibung: Gemisch aus nachfolgend angeführten Stoffen mit ungefährlichen Beimengungen.
  - Gefährliche Inhaltsstoffe: entfällt

(Fortsetzung auf Seite 2)
**Sicherheitsdatenblatt**
gemäß 1907/2006/EG, Artikel 31

**Handelsname:** Grid Coating Pen For TEM; Coat Quick "G"

**Zusätzliche Hinweise:** Der Wortlaut der angeführten Gefahrenhinweise ist dem Abschnitt 16 zu entnehmen.

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**ABSCHNITT 4: Erste-Hilfe-Maßnahmen**

- **4.1 Beschreibung der Erste-Hilfe-Maßnahmen**
  - **Allgemeine Hinweise:** Keine besonderen Maßnahmen erforderlich.
  - **Nach Einatmen:** Frischluftzufuhr, bei Beschwerden Arzt aufsuchen.
  - **Nach Hautkontakt:** Im allgemeinen ist das Produkt nicht hautreizend.
  - **Nach Augenkontakt:** Augen bei geöffnetem Lidspalt mehrere Minuten mit fließendem Wasser spülen.
  - **4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen**
    Keine weiteren relevanten Informationen verfügbar.
  - **4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung**
    Keine weiteren relevanten Informationen verfügbar.

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**ABSCHNITT 5: Maßnahmen zur Brandbekämpfung**

- **5.1 Löschmittel**
  - Geeignete Löschmittel: Feuerlöschmaßnahmen auf die Umgebung abstimmen.
- **5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren**
  Keine weiteren relevanten Informationen verfügbar.
- **5.3 Hinweise für die Brandbekämpfung**
  - **Besondere Schutzausrüstung:** Keine besonderen Maßnahmen erforderlich.

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**ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung**

- **6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren**
  Nicht erforderlich.
- **6.2 Umweltschutzmaßnahmen:** Keine besonderen Maßnahmen erforderlich.
- **6.3 Methoden und Material für Rückhaltung und Reinigung:**
  Mit flüssigkeitsbindendem Material (Sand, Kieselgur, Säurebinder, Universalbinder, Sägemehl) aufnehmen.
- **6.4 Verweis auf andere Abschnitte**
  Informationen zur sicheren Handhabung siehe Abschnitt 7.
  Informationen zur persönlichen Schutzausrüstung siehe Abschnitt 8.
  Informationen zur Entsorgung siehe Abschnitt 13.

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**ABSCHNITT 7: Handhabung und Lagerung**

- **7.1 Schutzmaßnahmen zur sicheren Handhabung**
  Keine besonderen Maßnahmen erforderlich.
- **Hinweise zum Brand- und Explosionsschutz:** Keine besonderen Maßnahmen erforderlich.
- **7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten**
  - **Lagerung:**
    - **Anforderung an Lagerräume und Behälter:** Keine besonderen Anforderungen.
    - **Zusammenlagerungshinweise:** Nicht erforderlich.
    - **Weitere Angaben zu den Lagerbedingungen:** Keine.
- **Lagerklasse:**
  - **Klassifizierung nach Betriebssicherheitsverordnung (BetrSichV):** -

(Fortsetzung auf Seite 3)
ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

- Zusätzliche Hinweise zur Gestaltung technischer Anlagen: Keine weiteren Angaben, siehe Abschnitt 7.

- 8.1 Zu überwachende Parameter
- Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten:
  Das Produkt enthält keine relevanten Mengen von Stoffen mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten.
- Zusätzliche Hinweise: Als Grundlage dienten die bei der Erstellung gültigen Listen.

- 8.2 Begrenzung und Überwachung der Exposition
- Persönliche Schutzausrüstung:
- Allgemeine Schutz- und Hygienemaßnahmen:
  Die üblichen Vorsichtsmaßnahmen beim Umgang mit Chemikalien sind zu beachten.
- Atemschutz: Nicht erforderlich.
- Handschutz:
  Das Handschuhmaterial muss undurchlässig und beständig gegen das Produkt / den Stoff / die Zubereitung sein. Aufgrund fehlender Tests kann keine Empfehlung zum Handschuhmaterial für das Produkt / die Zubereitung / das Chemikaliengemisch abgegeben werden.
  Auswahl des Handschuhmaterials unter Beachtung der Durchbruchzeiten, Permeationsraten und der Degradation.
- Handschuhmaterial
  Die Auswahl eines geeigneten Handschuhs ist nicht nur vom Material, sondern auch von weiteren Qualitätsmerkmalen abhängig und von Hersteller zu Hersteller unterschiedlich. Da das Produkt eine Zubereitung aus mehreren Stoffen darstellt, ist die Beständigkeit von Handschuhmaterialen nicht vorausberechenbar und muß deshalb vor dem Einsatz überprüft werden.
- Durchdringungszeit des Handschuhmaterials
  Die genaue Durchbruchzeit ist beim Schutzhandschuhhersteller zu erfahren und einzuhalten.
- Augenschutz: Beim Umfüllen Schutzbrille empfehlenswert.

ABSCHNITT 9: Physikalische und chemische Eigenschaften

- 9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften
- Allgemeine Angaben
- Aussehen:
  Form: Flüssigkeit
  Farbe: Farblos
  Geruch: Lösemittelartig
  Geruchsschwelle: Nicht bestimmt.
- pH-Wert: Nicht bestimmt.
- Zustandsänderung
  Schmelzpunkt/Gefrierpunkt: Nicht bestimmt.
  Siedebeginn und Siedebereich: 80 °C
- Flammpunkt: Nicht anwendbar.
- Entzündbarkeit (fest, gasförmig): Nicht anwendbar.
- Zersetzungstemperatur: Nicht bestimmt.
Handelsname: Grid Coating Pen For TEM; Coat Quick "G"

Sicherheitsdatenblatt
gemäß 1907/2006/EG, Artikel 31

Druckdatum: 10.07.2018
überarbeitet am: 10.07.2018

Selbstentzündungstemperatur: Das Produkt ist nicht selbstentzündlich.

Explosive Eigenschaften: Das Produkt ist nicht explosionsgefährlich.

Explosionsgrenzen:
Untere: Nicht bestimmt.
Obere: Nicht bestimmt.

Dampfdruck: Nicht bestimmt.

Dichte bei 20 °C: 0,8 g/cm³
Relative Dichte: Nicht bestimmt.
Dampfdichte: Nicht bestimmt.
Verdampfungsgeschwindigkeit: Nicht bestimmt.

Löslichkeit in / Mischbarkeit mit Wasser: Nicht bzw. wenig mischbar.

Verteilungskoeffizient: n-Octanol/Wasser: Nicht bestimmt.

Viskosität:
Dynamisch: Nicht bestimmt.
Kinematisch: Nicht bestimmt.

Lösemittelgehalt:
VOC (EU) 0,00 %

9.2 Sonstige Angaben Keine weiteren relevanten Informationen verfügbar.

Abschnitt 10: Stabilität und Reaktivität

10.1 Reaktivität Keine weiteren relevanten Informationen verfügbar.
10.2 Chemische Stabilität
Thermische Zersetzung / zu vermeidende Bedingungen: Keine Zersetzung bei bestimmungsgemäßer Verwendung.
10.3 Möglichkeit gefährlicher Reaktionen Keine gefährlichen Reaktionen bekannt.
10.4 Zu vermeidende Bedingungen Keine weiteren relevanten Informationen verfügbar.
10.5 Unverträgliche Materialien: Keine weiteren relevanten Informationen verfügbar.
10.6 Gefährliche Zersetzungsprodukte: Keine gefährlichen Zersetzungsprodukte bekannt.

Abschnitt 11: Toxikologische Angaben

11.1 Angaben zu toxikologischen Wirkungen
Akute Toxizität Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
Primäre Reizwirkung:
Ätz-/Reizzwirkung auf die Haut Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
Schwere Augenschädigung/-reizung Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
Sensibilisierung der Atemwege/Haut Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
CMR-Wirkungen (krebszerzeugende, erbgunderndernde und fortpflanzungsgefährdende Wirkung) Keine weiteren relevanten Informationen verfügbar.
Keimzell-Mutagenität Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
Karzinogenität Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
Reproduktionstoxizität Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
Spezifische Zielorgan-Toxizität bei einmaliger Exposition Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
Spezifische Zielorgan-Toxizität bei wiederholter Exposition Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
ABSCHNITT 12: Umweltbezogene Angaben

12.1 Toxizität
- Aquatische Toxizität: Keine weiteren relevanten Informationen verfügbar.
- Persistenz und Abbaubarkeit: Keine weiteren relevanten Informationen verfügbar.
- Bioakkumulationspotenzial: Keine weiteren relevanten Informationen verfügbar.
- Mobilität im Boden: Keine weiteren relevanten Informationen verfügbar.

12.3 Allgemeine Hinweise:
- Keine Wassergefährdung bekannt.

12.4 Ergebnisse der PBT- und vPvB-Beurteilung
- PBT: Nicht anwendbar.
- vPvB: Nicht anwendbar.

12.6 Andere schädliche Wirkungen: Keine weiteren relevanten Informationen verfügbar.

ABSCHNITT 13: Hinweise zur Entsorgung

13.1 Verfahren der Abfallbehandlung
- Empfehlung: Kleine Mengen können gemeinsam mit Hausmüll deponiert werden.

14.5 Umweltgefahren: Nicht anwendbar.

ABSCHNITT 14: Angaben zum Transport

14.6 Besondere Vorsichtsmaßnahmen für den Verwender: Nicht anwendbar.

ABSCHNITT 15: Rechtsvorschriften

15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Staff oder das Gemisch
- Richtlinie 2012/18/EU
- Namentlich aufgeführte gefährliche Stoffe - ANHANG I: Keiner der Inhaltsstoffe ist enthalten.

15.2 Stoffsicherheitsbeurteilung: Eine Stoffsicherheitsbeurteilung wurde nicht durchgeführt.

ABSCHNITT 16: Sonstige Angaben

Die Angaben stützen sich auf den heutigen Stand unserer Kenntnisse, sie stellen jedoch keine Zusicherung von Produkt eigenschaften dar und begründen kein vertragliches Rechtsverhältnis.

Abkürzungen und Akronyme:
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- 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)
Handelsname: Grid Coating Pen For TEM; Coat Quick "G"

VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
SEZIONE 1: Identificazione della sostanza o della miscela e della società/impresa

1.1 Identificatore del prodotto
- Denominazione commerciale: Grid Coating Pen For TEM; Coat Quick "G"
- Articolo numero: 70624

1.2 Usi identificati pertinenti della sostanza o della miscela e usi sconsigliati
Non sono disponibili altre informazioni.

1.3 Informazioni sul fornitore della scheda di dati di sicurezza
- Produttore/fornitore: Electron Microscopy Sciences
  1560 Industry Road
  USA-Hatfield, PA 19440
  Tel: 215-412-8400 Fax: 215-412-8450
  email: sgkck@aol.com
  www.emsdiasum.com
- Societa Italiana Chimici
  Via Rio Nell Ellba 140
  00138 Rome, Italy
  Tel: 39 06 8800211 Fax: 39 30 06 8815313
  Web: www.sichim.com

1.4 Numero telefonico di emergenza:
ChemTrec 1-800-424-9300 Contract CCN:7661
1-703-527-3887

SEZIONE 2: Identificazione dei pericoli

2.1 Classificazione della sostanza o della miscela
- Classificazione secondo il regolamento (CE) n. 1272/2008
  Il prodotto non è classificato conformemente al regolamento CLP.

2.2 Elementi dell'etichetta
- Etichettatura secondo il regolamento (CE) n. 1272/2008 non applicabile
- Pittogrammi di pericolo non applicabile
- Avvertenza non applicabile
- Indicazioni di pericolo non applicabile

2.3 Altri pericoli
- Risultati della valutazione PBT e vPvB
  - PBT: Non applicabile.
  - vPvB: Non applicabile.

SEZIONE 3: Composizione/informazioni sugli ingredienti

3.2 Caratteristiche chimiche: Miscela
- Descrizione: Miscela delle seguenti sostanze con additivi non pericolosi.
- Sostanze pericolose: non applicabile
- Ulteriori indicazioni: Il testo dell'avvertenza dei pericoli citati può essere appreso dal capitolo 16

(continua a pagina 2)
SEZIONE 4: Misure di primo soccorso

- 4.1 Descrizione delle misure di primo soccorso
- Indicazioni generali: Non sono necessari provvedimenti specifici.
- Inalazione: Portare in zona ben areata, in caso di disturbi consultare il medico.
- Contatto con la pelle: Generalmente il prodotto non è irritante per la pelle.
- Contatto con gli occhi: Lavare con acqua corrente per alcuni minuti tenendo le palpebre ben aperte.
- Ingestione: Se il dolore persiste consultare il medico.
- 4.2 Principali sintomi ed effetti, sia acuti che ritardati: Non sono disponibili altre informazioni.
- 4.3 Indicazione dell’eventuale necessità di consultare immediatamente un medico e di trattamenti speciali: Non sono disponibili altre informazioni.

SEZIONE 5: Misure antincendio

- 5.1 Mezzi di estinzione
- Mezzi di estinzione idonei: Adottare provvedimenti antiincendio nei dintorni della zona colpita.
- 5.2 Pericoli speciali derivanti dalla sostanza o dalla miscela: Non sono disponibili altre informazioni.
- 5.3 Raccomandazioni per gli addetti all’estinzione degli incendi
- Mezzi protettivi specifici: Non sono richiesti provvedimenti particolari.

SEZIONE 6: Misure in caso di rilascio accidentale

- 6.1 Precauzioni personali, dispositivi di protezione e procedure in caso di emergenza: Non necessario.
- 6.2 Precauzioni ambientali: Non sono richiesti provvedimenti particolari.
- 6.3 Metodi e materiali per il contenimento e per la bonifica: Raccogliere il liquido con materiale assorbente (sabbia, tripoli, legante di acidi, legante universale, segatura).
- 6.4 Riferimento ad altre sezioni
- Per informazioni relative ad un manipolazione sicura, vedere capitolo 7.
- Per informazioni relative all’equipaggiamento protettivo ad uso personale vedere Capitolo 8.
- Per informazioni relative allo smaltimento vedere Capitolo 13.

SEZIONE 7: Manipolazione e immagazzinamento

- 7.1 Precauzioni per la manipolazione sicura: Non sono richiesti provvedimenti particolari.
- Indicazioni in caso di incendio ed esplosione: Non sono richiesti provvedimenti particolari.
- 7.2 Condizioni per lo stoccaggio sicuro, comprese eventuali incompatibilità
- Stoccaggio:
- Requisiti dei magazzini e dei recipienti: Non sono richiesti requisiti particolari.
- Indicazioni sullo stoccaggio misto: Non necessario.
- Ulteriori indicazioni relative alle condizioni di immagazzinamento: Nessuno.
- 7.3 Usi finali particolari: Non sono disponibili altre informazioni.

SEZIONE 8: Controllo dell’esposizione/protezione individuale

- Ulteriori indicazioni sulla struttura di impianti tecnici: Nessun dato ulteriore, vedere punto 7.
- 8.1 Parametri di controllo
- Componenti i cui valori limite devono essere tenuti sotto controllo negli ambienti di lavoro:
  Il prodotto non contiene quantità rilevanti di sostanze i cui valori limite devono essere tenuti sotto controllo negli ambienti di lavoro.

(continua a pagina 3)
Scheda di dati di sicurezza
ai sensi del regolamento 1907/2006/CE, Articolo 31

Denominazione commerciale: Grid Coating Pen For TEM; Coat Quick "G"

· **Ulteriori indicazioni:** Le liste valide alla data di compilazione sono state usate come base.

· **8.2 Controlli dell’esposizione**
  · **Mezzi protettivi individuali:**
  · **Norme generali protettive e di igiene del lavoro:**
    Osservare le misure di sicurezza usuali nella manipolazione di sostanze chimiche.
  · **Maschera protettiva:** Non necessario.
  · **Guanti protettivi:**
    Il materiale dei guanti deve essere impermeabile e stabile contro il prodotto/la sostanza/la formulazione.
    A causa della mancanza di test non può essere consigliato alcun tipo di materiale per i guanti con cui manipolare il prodotto / la formulazione / la miscela di sostanze chimiche.
    Scelta del materiale dei guanti in considerazione dei tempi di passaggio, dei tassi di permeazione e della degradazione.
  · **Materiale dei guanti**
    La scelta dei guanti adatti non dipende soltanto dal materiale bensì anche da altre caratteristiche di qualità variabili da un produttore a un altro. Poiché il prodotto rappresenta una formulazione di più sostanze, la stabilità dei materiali dei guanti non è calcolabile in anticipo e deve essere testata prima dell’impiego.
  · **Tempo di permeazione del materiale dei guanti**
    Richiedere dal fornitore dei guanti il tempo di passaggio preciso il quale deve essere rispettato.
  · **Occhiali protettivi:** Si consiglia l’uso di occhiali protettivi durante il travaso.

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**SEZIONE 9: Proprietà fisiche e chimiche**

- **9.1 Informazioni sulle proprietà fisiche e chimiche fondamentali**
  - **Indicazioni generali**
  - **Aspetto:**
    · Forma: Liquido
    · Colore: Incolore
    · Odore: Di solvente
    · Soglia olfattiva: Non definito.
  - **valori di pH:** Non definito.
  - **Cambiamento di stato**
    · Punto di fusione/punto di congelamento: Non definito.
    · Punto di ebollizione iniziale e intervallo di ebollizione: 80 °C
  - **Punto di infiammabilità:** Non applicabile.
  - **Infiammabilità (solidi, gas):** Non applicabile.
  - **Temperatura di decomposizione:** Non definito.
  - **Temperatura di autoaccensione:** Prodotto non autoinfiammabile.
  - **Proprietà esplosive:** Prodotto non esplosivo.
  - **Limiti di infiammabilità:**
    · Inferiore: Non definito.
    · Superiore: Non definito.
  - **Tensione di vapore:** Non definito.
  - **Densità a 20 °C:** 0,8 g/cm³
  - **Densità relativa**
    · Non definito.
  - **Densità di vapore**
    · Non definito.

(continua a pagina 4)
Denominazione commerciale: Grid Coating Pen For TEM; Coat Quick "G"

(SEgue da pagina 3)

- **Velocità di evaporazione**: Non definito.
- **Solubilità in/Miscibilità con acqua**: Poco e/o non miscibile.
- **Coefficiente di ripartizione: n-ottanolo/acqua**: Non definito.
- **Viscosità**: 
  - Dinamica: Non definito.
  - Cinemática: Non definito.
- **Tenore del solvente**: VOC (CE) 0,00 %
- **9.2 Altre informazioni**: Non sono disponibili altre informazioni.

**SEZIONE 10: Stabilità e reattività**

- **10.1 Reattività**: Non sono disponibili altre informazioni.
- **10.2 Stabilità chimica**
- **Decomposizione termica/ condizioni da evitare**: Il prodotto non si decompone se utilizzato secondo le norme.
- **10.3 Possibilità di reazioni pericolose**: Non sono note reazioni pericolose.
- **10.4 Condizioni da evitare**: Non sono disponibili altre informazioni.
- **10.5 Materiali incompatibili**: Non sono disponibili altre informazioni.
- **10.6 Prodotti di decomposizione pericolosi**: Non sono noti prodotti di decomposizione pericolosi.

**SEZIONE 11: Informazioni tossicologiche**

- **11.1 Informazioni sugli effetti tossicologici**
  - **Tossicità acuta**: Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
  - **Irritabilità primaria**
  - **Corrosione/irritazione cutanea**: Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
  - **Lesioni oculari gravi/irritazioni oculari gravi**: Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
  - **Sensibilizzazione respiratoria o cutanea**: Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
  - **Effetti CMR (cancerogenicità, mutagenicità e tossicità per la riproduzione)**
  - **Mutagenicità delle cellule germinali**: Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
  - **Cancerogenicità**: Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
  - **Tossicità per la riproduzione**: Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
  - **Tossicità specifica per organi bersaglio (STOT) - esposizione singola**: Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
  - **Tossicità specifica per organi bersaglio (STOT) - esposizione ripetuta**: Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
  - **Pericolo in caso di aspirazione**: Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.

**SEZIONE 12: Informazioni ecologiche**

- **12.1 Tossicità**
  - **Tossicità aquatica**: Non sono disponibili altre informazioni.
- **12.2 Persistenza e degradabilità**: Non sono disponibili altre informazioni.
- **12.3 Potenziale di bioaccumulo**: Non sono disponibili altre informazioni.

(continua a pagina 5)
**Scheda di dati di sicurezza**  
ai sensi del regolamento 1907/2006/CE, Articolo 31

**Denominazione commerciale:** Grid Coating Pen For TEM; Coat Quick "G"

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- **12.4 Mobilità nel suolo** Non sono disponibili altre informazioni.
- **Ulteriori indicazioni in materia ambientale:**
  - **Ulteriori indicazioni:** Non si conoscono dati di pericolosità per le acque.
  - **12.5 Risultati della valutazione PBT e vPvB**
    - **PBT:** Non applicabile.
    - **vPvB:** Non applicabile.
  - **12.6 Altri effetti avversi** Non sono disponibili altre informazioni.

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**SEZIONE 13: Considerazioni sullo smaltimento**

- **13.1 Metodi di trattamento dei rifiuti**
  - **Consigli:** Piccole quantità di prodotto possono essere smaltite insieme ai rifiuti domestici.
  - **Imballaggi non puliti:**
    - **Consigli:** Smaltimento in conformità con le disposizioni amministrative.

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**SEZIONE 14: Informazioni sul trasporto**

- **14.5 Pericoli per l'ambiente:** Non applicabile.
- **14.6 Precauzioni speciali per gli utilizzatori** Non applicabile.
- **14.7 Trasporto di rinfuse secondo l'allegato II di MARPOL ed il codice IBC** Non applicabile.

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**SEZIONE 15: Informazioni sulla regolamentazione**

- **15.1 Disposizioni legislative e regolamentari su salute, sicurezza e ambiente specifiche per la sostanza o la miscela**
  - **Direttiva 2012/18/UE**
  - **Sostanze pericolose specificate - ALLEGATO I** Nessuno dei componenti è contenuto.
- **15.2 Valutazione della sicurezza chimica:** Una valutazione della sicurezza chimica non è stata effettuata.

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**SEZIONE 16: Altre informazioni**

I dati sono riportati sulla base delle nostre conoscenze attuali, non rappresentano tuttavia alcuna garanzia delle caratteristiche del prodotto e non motivano alcun rapporto giuridico contrattuale.

- **Abbreviazioni e acronimi:**
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - 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)
  - VOC: Volatile Organic Compounds (USA, EU)
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
물질안전보건자료
GHS에 따라

1. 화학제품과 회사에 관한 정보

· 제품 식별자
  · 제품명: Grid Coating Pen For TEM; Coat Quick "G"
  · 상품번호: 70624
  · 안전데이터표 내 공급업체 관련 상세 정보
    · 제조사/수입자/유통업자 정보:
      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
  · 추가적인 정보 획득 가능: Product safety department
  · 비상연락 전화번호: ChemTrec 1-800-424-9300 Contract CCN7661
    1-703-527-3887
  · 추가적인 정보 획득 가능: Product safety department

2. 유해성-위험성

· 순물질 또는 혼합물의 분류
  본 제품은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류되지 않습니다.

· 라벨표기 요소
  · GHS 라벨 요소 누락되다
  · 그림문자 누락되다
  · 신호어 누락되다
  · 유해 위험 문구 누락되다
  · 기타 유해성
    · PBT(반류성, 생물농축성, 독성 물질) 및 vPvB(고 반류성, 고 생물농축성 물질) 평가 결과
    · PBT(반류성, 생물농축성, 독성 물질): 해당사항 없음.
    · vPvB(고 반류성, 고 생물농축성 물질): 해당사항 없음.

3. 구성성분의 명칭 및 함유량

· 화학적 특성: 혼합물
  · 설명: 무해한 첨가물이 함유된 아래에 열거된 물질로 만들어진 혼합물.
  · 위험 요소: 무해하다

4. 응급조치 요령

· 응급조치요령 내용
  · 일반적 정보: 특별한 조치가 필요없음.
  · 흡입했을 때: 신선한 공기를 써고, 통증이 있을 때는 의료진의 도움을 구한다.

(2쪽에계속)
제품명: Grid Coating Pen For TEM; Coat Quick "G"

피부에 접촉했을 때: 일반적으로 이 제품은 피부에 자극적이지 않다.
눈에 들어갔을 때: 희르는 물에 눈을 맞추어 씻어낸다.
먹었을 때: 중상이 지속될 경우에는 의사와 상담한다.
기타 의사의 주의사항:
가장 중요한 급·만성 증상 및 영향: 추가적인 정보가 존재하지 않습니다.
즉각적인 화학물질의 혼합위험성: 추가적인 정보가 존재하지 않습니다.
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5. 폭발·화재시 대처방법

소화제:
적절한 소화제: 주변 환경에 맞는 화재 진화방법을 사용한다.
본 화학물질이나 혼합물에서 발생하는 특별히 유해성 추가적인 정보가 존재하지 않습니다.
소방관에 대한 경고사항:
화재 진화 시 적합한 보호구 및 예방조치: 특별한 조치가 필요없음.

6. 누출 사고 시 대처방법

개인적 예방조치, 보호장비 및 응급처치 절차 필요없음.
환경 관련 예방조치: 특별한 조치가 필요없음.
일반 및 화학 방법과 소재:
액체가 혼합된 물 질(모래, 규 조토, 산성 결합 물, 일반 결합 물, 톨 벌)에 흡입되도록 한다.
타 석션 참조:
안전관리에 대한 정보는 제7장을 참고하시오.
개인 보호 장비에 대한 정보는 제8장은 참고하시오.
쓰레기처리에 대한 정보는 제13장을 참고하시오.

7. 취급 및 저장방법

취급:
안전 취급을 위한 예방조치 특별한 조치가 필요없음.
화재 및 폭발 사고 예방책에 관한 정보: 특별한 조치가 필요없음.
혼합위험성 등 안전 저장 조건:
보관:
안전한 저장 방 법: 특별한 요구사항이 없음.
물질의 공급 보관 시설에 대한 보관 관련 정보: 필요없음
보관 조건에 관한 추가적인 정보: 없음.
구체적 최종 사용자 추가적인 정보가 존재하지 않습니다.

8. 노출방지 및 개인보호구

침حكم시설 디자인에 대한 추가정보: 더 이상의 자료는 없음. 항목 7을 참고하시오.
통지 변수:
화학물질의 노출기준, 생물학적 노출기준 등:
본 제품은 작업장에서 감시에 필요한 주요한 가치의 어떤 해당 재료의 암을 유해하고 있지 않다.
추가 정보: 제 조합 당시에 유 효한 목록을 기초로 사용했다.
노출 통제:
개인보호구:
일반적보호조직및위생조치: 화학제품을 취급할 때의 일반적인 예방조치를 준수해야 한다.
호흡기보호: 필요없음.
### 제품명: Grid Coating Pen For TEM; Coat Quick "G"

(2쪽부터계속)

| 손 보호: |
|=========|
| 장갑재질은제품/원료/조제물투과시키지않아야하고, 내구성이있어야한다. 테스트를 하지 않기 때문에 제품/조제/화학 혼합 물에 적합한 장갑재질에 대한 추천이 없다. 투과 시간, 침투율과 저항을 고려해서 장갑재료를 선택한다. |

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### 9 물리화학적 특성

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<td>n 용상용물 분배계수: 알맞지않다.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>화학적 용질 내용물</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC (EU): 0.00 %</td>
</tr>
</tbody>
</table>

(4쪽부터계속)
제품명: Grid Coating Pen For TEM; Coat Quick "G"

기타 정보
추가적인 정보가 존재하지 않습니다.

10 안정성 및 반응성

- 반응성: 추가적인 정보가 존재하지 않습니다.
- 화학적 안정성: 
  - 화학적 안정성 및 유해 반응의 가능성: 목록에 따라 사용할경우해체는없다
  - 피해할 조건: 추가적인 정보가 존재하지 않습니다.
  - 온화한 화학적 반응: 추가적인 정보가 존재하지 않습니다.
  - 유해반응: 위험성있는분해물들은알려지지않았다.

11 특성에 관한 정보

- 독성학적 영향: 추가적인 정보가 존재하지 않습니다.
  - 급성 독성: 추가적인 정보가 존재하지 않습니다.
  - 일차적 자극: 추가적인 정보가 존재하지 않습니다.
  - 피부 부식성 또는 자극성: 추가적인 정보가 존재하지 않습니다.
  - 피부 자극성: 추가적인 정보가 존재하지 않습니다.

12 환경에 미치는 영향

- 특성: 추가적인 정보가 존재하지 않습니다.
  - 수생독성: 추가적인 정보가 존재하지 않습니다.
  - 지속성 및 분해성: 추가적인 정보가 존재하지 않습니다.

13 폐기시 주의사항

- 폐기물 처리 방법: 추가적인 정보가 존재하지 않습니다.
- 원고: 보다적은양은보편적으로생활쓰레기와함께보관될수있다.
물질안전보건자료
GHS에 따라

제품명: Grid Coating Pen For TEM; Coat Quick "G"

비위생적 포장:
- 권고: 당국의지침에일각한쓰레기처리.

14 운송에 필요한 정보

- 환경적 유해물질: 해당사항 없음.
- 이용자 특별 예방조치: 해당사항 없음.
- MARPOL73/78(선박으로부터의 해양오염방지협약) 부속서2 및 IBC Code(국제선적화물코드)에 따른 벌크(bulk) 운송: 해당사항 없음.

15 법적 규제현황

- 산업안전보건법에 의한 규제:
  - 제조 등 금지물질: 어떠한내용물도목록화되어있지않다
  - 허가대상물질: 어ทำการ내용물목록화되어있지않다
  - 관리대상유해물질: 어ทำการ내용물목록화되어있지않다
  - 해당 순상물 또는 혼합물에 대한 안전, 보건 및 환경 규제/법률
    - 화학물질관리법
    - 사고대비물질: 어ทำการ내용물목록화되어있지않다
    - 금지물질: 어ทำการ내용물목록화되어있지않다
    - 제한물질: 어ทำการ내용물목록화되어있지않다
    - 유독물질: 어ทำการ내용물목록화되어있지않다
    - 허가물질: 어ทำการ내용물목록화되어있지않다
    - GHS 라벨 요소 누락되다
    - 그림문자 누락되다
    - 신호어 누락되다
    - 유해,위험 문구 누락되다
    - 화학물질 안전성 평가: 화학물질 안전성 평가가 수행되지않음

16 그 밖의 참고사항

이보고는우리지식에대한오늘날의상태에대하여평가하고있다. 하지만이보고서는생산특성에관한보증은
기술하지않았으며계약적인법률관계에기반을두고있지도않다
- 최초 작성일자: 2018.07.10
- 개정 횟수 및 최종 개정일자: 1 / 2018.07.10
제품명: Grid Coating Pen For TEM; Coat Quick "G"

· 약어와 투문자어:
  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)
  VOC: Volatile Organic Compounds (USA, EU)
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
Ficha de datos de seguridad según 1907/2006/CE, Artículo 31

fecha de impresión 10.07.2018
Revisión: 10.07.2018

SECCIÓN 1: Identificación de la sustancia o la mezcla y de la sociedad o la empresa

1.1 Identificador del producto
   Nombre comercial: Grid Coating Pen For TEM; Coat Quick "G"
   Número del artículo: 70624

1.2 Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados
   No existen más datos relevantes disponibles.

1.3 Datos del proveedor de la ficha de datos de seguridad
   Fabricante/distribuidor:
   Electron Microscopy Sciences
   1560 Industry Road
   USA-Hatfield, PA 19440
   Tel: 215-412-8400  Fax: 215-412-8450
   email: sgkck@aol.com
   www.emsdiasum.com
   Aname
   C/ Perez Galdos no. 2
   28693 Quijorna
   Madrid, Spain
   Tel: +34.91.816.89.50
   Fax: +34.91.816.85.94
   email: ventas@anagem.com
   Área de información: Product safety department
   Teléfono de emergencia:
   ChemTrec 1-800-424-9300 Contract CCN7661
   1-703-527-3887

SECCIÓN 2: Identificación de los peligros

2.1 Clasificación de la sustancia o de la mezcla
   Clasificación con arreglo al Reglamento (CE) n° 1272/2008
   El producto no se ha clasificado de conformidad con el reglamento CLP.

2.2 Elementos de la etiqueta
   Etiquetado con arreglo al Reglamento (CE) n° 1272/2008 suprimido
   Pictogramas de peligro suprimido
   Palabra de advertencia suprimido
   Indicaciones de peligro suprimido

2.3 Otros peligros
   Resultados de la valoración PBT y mPmB
   PBT: No aplicable.
   mPmB: No aplicable.

SECCIÓN 3: Composición/información sobre los componentes

3.2 Caracterización química: Mezclas
   Descripción: Mezcla formada por las substancias especificadas a continuación con adiciones no peligrosas.
   Componentes peligrosos: suprimido
   Indicaciones adicionales: El texto de los posibles riesgos aquí indicados se puede consultar en el capítulo 16.

( se continua en página 2 )
SECCIÓN 4: Primeros auxilios

- 4.1 Descripción de los primeros auxilios
- Instrucciones generales: No se precisan medidas especiales.
- En caso de inhalación del producto: Suministrar aire fresco. En caso de trastornos, consultar al médico.
- En caso de contacto con la piel: Por regla general, el producto no irrita la piel.
- En caso de con los ojos: Limpiar los ojos abiertos durante varios minutos con agua corriente.
- En caso de ingestión: Consultar un médico si los trastornos persisten.

- 4.2 Principales síntomas y efectos, agudos y retardados: No existen más datos relevantes disponibles.
- 4.3 Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente: No existen más datos relevantes disponibles.

SECCIÓN 5: Medidas de lucha contra incendios

- 5.1 Medios de extinción
- Sustancias extintoras apropiadas: Combatir los incendios con medidas adaptadas al ambiente circundante.
- 5.2 Peligros específicos derivados de la sustancia o la mezcla: No existen más datos relevantes disponibles.
- 5.3 Recomendaciones para el personal de lucha contra incendios
- Equipo especial de protección: No se requieren medidas especiales.

SECCIÓN 6: Medidas en caso de vertido accidental

- 6.1 Precauciones personales, equipo de protección y procedimientos de emergencia: No es necesario.
- 6.2 Precauciones relativas al medio ambiente: No se requieren medidas especiales.
- 6.3 Métodos y material de contención y de limpieza:
  Quitar con material absorbente (arena, kieselgur, aglutinante de ácidos, aglutinante universal, aserrín).
- 6.4 Referencia a otras secciones
  Ver capítulo 7 para mayor información sobre una manipulación segura.
  Ver capítulo 8 para mayor información sobre el equipo personal de protección.
  Para mayor información sobre cómo deschar el producto, ver capítulo 13.

SECCIÓN 7: Manipulación y almacenamiento

- 7.1 Precauciones para una manipulación segura: No se requieren medidas especiales.
- Prevención de incendios y explosiones: No se requieren medidas especiales.
- 7.2 Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades
  Almacenamiento:
  - Exigencias con respecto al almacen y los recipientes: No se requieren medidas especiales.
  - Normas en caso de un almacenamiento conjunto: No es necesario.
  - Indicaciones adicionales sobre las condiciones de almacenamiento: Ningunos, -as.
- 7.3 Usos específicos finales: No existen más datos relevantes disponibles.

SECCIÓN 8: Controles de exposición/protección individual

- Instrucciones adicionales para el acondicionamiento de instalaciones técnicas:
  Sin datos adicionales, ver punto 7.
Nombre comercial: Grid Coating Pen For TEM; Coat Quick "G"

8.1 Parámetros de control
- Componentes con valores límite admisibles que deben controlarse en el puesto de trabajo:
  El producto no contiene cantidades relevantes de substancias con valores límite que exijan un control en el
  puesto de trabajo.
- Indicaciones adicionales: Como base se han utilizado las listas vigentes en el momento de la elaboración.

8.2 Controles de la exposición
- Equipo de protección individual:
- Medidas generales de protección e higiene:
  Se deben observar las medidas de seguridad para el manejo de productos químicos.
- Protección respiratoria: No es necesario.
- Protección de manos:
  El material del guante deberá ser impermeable y resistente al producto / substancia / preparado.
  Ante la ausencia de tests específicos, no se puede recomendar ningún material específico para guantes de
  protección contra el producto / preparado / mezcla de substancias químicas.
  Selección del material de los guantes en función de los tiempos de rotura, grado de permeabilidad y degradación.
- Material de los guantes
  La elección del guante adecuado no depende únicamente del material, sino también de otras características de
  calidad, que pueden variar de un fabricante a otro. Teniendo en cuenta que el producto está fabricado a partir de
  diferentes materiales, su calidad no puede ser avaluada de antemano, de modo que los guantes deberán ser
  controlados antes de su utilización.
- Tiempo de penetración del material de los guantes
  El tiempo de resistencia a la penetración exacto deberá ser pedido al fabricante de los guantes. Este tiempo debe
  ser respetado.
- Protección de ojos: Se recomienda el uso de gafas de protección durante el trasvase del producto.

SECCIÓN 9: Propiedades físicas y químicas

9.1 Información sobre propiedades físicas y químicas básicas
- Datos generales
- Aspecto:
  Forma: Liquido
  Color: Incoloro
- Olor: Similar al disolvente
- Umbral olfativo: No determinado.
- valor pH: No determinado.
- Cambio de estado
  Punto de fusión/punto de congelación: Indeterminado.
  Punto inicial de ebullición e intervalo de ebullición: 80 °C
- Punto de inflamación: No aplicable.
- Inflamabilidad (sólido, gas): No aplicable.
- Temperatura de descomposición: No determinado.
- Temperatura de auto-inflamación: El producto no es autoinflamable.
- Propiedades explosivas: El producto no es explosivo.
- Límites de explosión:
  Inferior: No determinado.
  Superior: No determinado.
**Nombre comercial:** Grid Coating Pen For TEM; Coat Quick "G"

<table>
<thead>
<tr>
<th>Propiedad</th>
<th>Valor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presión de vapor</td>
<td>No determinado.</td>
</tr>
<tr>
<td>Densidad a 20 °C</td>
<td>0,8 g/cm³</td>
</tr>
<tr>
<td>Densidad relativa</td>
<td>No determinado.</td>
</tr>
<tr>
<td>Densidad de vapor</td>
<td>No determinado.</td>
</tr>
<tr>
<td>Tasa de evaporación</td>
<td>No determinado.</td>
</tr>
<tr>
<td>Solubilidad en / miscibilidad con agua</td>
<td>Poco o no mezclable.</td>
</tr>
<tr>
<td>Coeficiente de reparto: n-octanol/agua</td>
<td>No determinado.</td>
</tr>
<tr>
<td>Viscosidad</td>
<td></td>
</tr>
<tr>
<td>Dinámica</td>
<td>No determinado.</td>
</tr>
<tr>
<td>Cinemática</td>
<td>No determinado.</td>
</tr>
<tr>
<td>Concentración del disolvente:</td>
<td></td>
</tr>
<tr>
<td>VOC (CE)</td>
<td>0,00 %</td>
</tr>
<tr>
<td>9.2 Otros datos</td>
<td>No existen más datos relevantes disponibles.</td>
</tr>
</tbody>
</table>

**SECCIÓN 10: Estabilidad y reactividad**

- **10.1 Reactividad** No existen más datos relevantes disponibles.
- **10.2 Estabilidad química**
  - Descomposición térmica / condiciones que deben evitarse: No se descompone al emplearse adecuadamente.
- **10.3 Posibilidad de reacciones peligrosas** No se conocen reacciones peligrosas.
- **10.4 Condiciones que deben evitarse** No existen más datos relevantes disponibles.
- **10.5 Materiales incompatibles:** No existen más datos relevantes disponibles.
- **10.6 Productos de descomposición peligrosos:** No se conocen productos de descomposición peligrosos.

**SECCIÓN 11: Información toxicológica**

- **11.1 Información sobre los efectos toxicológicos**
  - Toxicidad aguda A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
  - Efecto estimulante primario:
  - Corrosión o irritación cutáneas A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
  - Lesiones o irritación ocular graves A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
  - Sensibilización respiratoria o cutánea A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
  - Efectos CMR (carcinogenicidad, mutagenicidad y toxicidad para la reproducción)
  - Mutagenicidad en células germinales A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
  - Carcinogenicidad A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
  - Toxicidad para la reproducción A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
  - Toxicidad específica en determinados órganos (STOT) – exposición única A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
  - Toxicidad específica en determinados órganos (STOT) – exposición repetida A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
  - Peligro de aspiración A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
SECCIÓN 12: Información ecológica

- 12.1 Toxicidad
  - Toxicidad acuática: No existen más datos relevantes disponibles.
  - 12.2 Persistencia y degradabilidad No existen más datos relevantes disponibles.
  - 12.3 Potencial de bioacumulación No existen más datos relevantes disponibles.
  - 12.4 Movilidad en el suelo No existen más datos relevantes disponibles.
  - Indicaciones medioambientales adicionales:
    - Indicaciones generales: No se tiene conocimiento de que represente un peligro para el agua.
  - 12.5 Resultados de la valoración PBT y mPmB
    - PBT: No aplicable.
    - mPmB: No aplicable.
  - 12.6 Otros efectos adversos No existen más datos relevantes disponibles.

SECCIÓN 13: Consideraciones relativas a la eliminación

- 13.1 Métodos para el tratamiento de residuos
  - Recomendación: Pequeñas cantidades pueden ser desechadas con la basura doméstica.
  - Embalajes sin limpiar:
  - Recomendación: Eliminar conforme a las disposiciones oficiales.

SECCIÓN 14: Información relativa al transporte

- 14.5 Peligros para el medio ambiente: No aplicable.
- 14.6 Precauciones particulares para los usuarios No aplicable.
- 14.7 Transporte a granel con arreglo al anexo II del Convenio MARPOL y el Código IBC No aplicable.

SECCIÓN 15: Información reglamentaria

- 15.1 Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla
  - Directiva 2012/18/UE
  - Sustancias peligrosas nombradas - ANEXO I ninguno de los componentes está incluido en una lista
- 15.2 Evaluación de la seguridad química: Una evaluación de la seguridad química no se ha llevado a cabo.

SECCIÓN 16: Otra información

Los datos se fundan en el estado actual de nuestros conocimientos, pero no constituyen garantía alguna de cualidades del producto y no generan ninguna relación jurídica contractual.

- Abreviaturas y acrónimos:
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - 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)
  - VOC: Volatile Organic Compounds (USA, EU)
  - PBT: Persistent, Bioaccumulative and Toxic
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