1 Identification

· Product identifier
· Trade name: RHODINILE BLUE STAIN SOLUTION
· Article number: 26162-01
· 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

  GHS08 Health hazard

  Resp. Sens. 1B H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  Muta. 2 H341 Suspected of causing genetic defects.
  Carc. 2 H351 Suspected of causing cancer.
  STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

  GHS07

  Acute Tox. 4 H302 Harmful if swallowed.
  Acute Tox. 4 H312 Harmful in contact with skin.
  Skin Irrit. 2 H315 Causes skin irritation.
  Skin Sens. 1B H317 May cause an allergic skin reaction.

  Eye Irrit. 2B H320 Causes eye irritation.

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

  GHS07  GHS08

· Signal word Danger
· Hazard statements
  Harmful if swallowed or in contact with skin.
  Causes skin and eye irritation.

(Contd. on page 2)
Trade name: RHODINILE BLUE STAIN SOLUTION

May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
Suspected of causing genetic defects.
Suspected of causing cancer.
May cause damage to organs through prolonged or repeated exposure.

- Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray.
[In case of inadequate ventilation] wear respiratory protection.
Wear protective gloves / protective clothing.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing must not be allowed out of the workplace.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see on this label).
If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
Wash contaminated clothing before reuse.
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention if you feel unwell.
Rinse mouth.
IF ON SKIN: Wash with plenty of water.
Take off contaminated clothing and wash it before reuse.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:

- NFPA ratings (scale 0 - 4)

Health = 2
Fire = 0
Reactivity = 0

- HMIS-ratings (scale 0 - 4)

Health = 2
Fire = 0
Reactivity = 0

- Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

<table>
<thead>
<tr>
<th>Composition/information on ingredients</th>
</tr>
</thead>
</table>

- Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.
4 First-aid measures

- **Description of first aid measures**
- **General information:**
  Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**
  Supply fresh air and be sure to call for a doctor.
  In case of unconsciousness, place patient stably in side position for transportation.
- **After skin contact:**
  Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
  Immediately call a 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:**
  CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.
- **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).
  Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.
- **Reference to other sections**
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
  Ensure good ventilation/exhaustion at the workplace.
  Prevent formation of aerosols.
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:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
· Breathing equipment:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
· Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· Eye protection:

Tightly sealed goggles
## 9 Physical and chemical properties

- **General Information**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Form</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Dark red</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Characteristic</td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>pH-value</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Melting point/Melting range</strong></td>
<td>Undetermined</td>
</tr>
<tr>
<td><strong>Boiling point/Boiling range</strong></td>
<td>100 °C (212 °F)</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Flammability</strong></td>
<td>Not flammable</td>
</tr>
<tr>
<td><strong>Auto igniting</strong></td>
<td>Product is not selfigniting</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Explosion limits</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Density at 20 °C (68 °F)</strong></td>
<td>1.01094 g/cm³ (8.436 lbs/gal)</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with</strong></td>
<td>Not miscible or difficult to mix.</td>
</tr>
<tr>
<td><strong>Water</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water)</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Dynamic</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Kinematic</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Solvent content</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Organic solvents</strong></td>
<td>0.0 %</td>
</tr>
<tr>
<td><strong>Water</strong></td>
<td>98.5 %</td>
</tr>
<tr>
<td><strong>VOC content</strong></td>
<td>0.0 g/l / 0.00 lb/gl</td>
</tr>
<tr>
<td><strong>Solids content</strong></td>
<td>1.5 %</td>
</tr>
<tr>
<td><strong>Other information</strong></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.
**Safety Data Sheet**  
acc. to OSHA HCS

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**Trade name:** RHODINILE BLUE STAIN SOLUTION

(Contd. of page 5)

- **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:** Irritant to skin and mucous membranes.
      - **on the eye:** Irritating effect.
    - **Sensitization:**
      - Sensitization possible through inhalation.
      - Sensitization possible through skin contact.
  - **Additional toxicological information:**
    - The product shows the following dangers according to internally approved calculation methods for preparations:
      - Harmful
      - Irritant

- **Carcinogenic categories**
  - **IARC (International Agency for Research on Cancer)**
    - None of the ingredients is listed.
  - **NTP (National Toxicology Program)**
    - None of the ingredients is listed.
  - **OSHA-Ca (Occupational Safety Health Administration)**
    - None of the ingredients is listed.

### 12 Ecological information

- **Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
  - **Persistence and degradability** No further relevant information available.
  - **Behavior in environmental systems:**
    - **Bioaccumulative potential** No further relevant information available.
    - **Mobility in soil** No further relevant information available.
  - **Additional ecological information:**
    - **General notes:** Generally not hazardous for 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:**
  - Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
14 Transport information

- UN-Number
  - DOT, ADR, IMDG, IATA Void
- UN proper shipping name
  - DOT, ADR, IMDG, IATA Void
- Transport hazard class(es)
  - DOT, ADR, IMDG, IATA Void
  - Class Void
- Packing group
  - DOT, ADR, IMDG, IATA Void
- 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.
- UN "Model Regulation": Void

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):
    7447-14-5 sodium chloride
    7732-18-5 water, distilled, conductivity or of similar purity
  - 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.
Trade name: RHODINILE BLUE STAIN SOLUTION

- 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
  The product is classified and labeled according to the Globally Harmonized System (GHS).

- Hazard pictograms
  - GHS07
  - GHS08

- Signal word
  Danger

- Hazard statements
  Harmful if swallowed or in contact with skin.
  Causes skin and eye irritation.
  May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  May cause an allergic skin reaction.
  Suspected of causing genetic defects.
  Suspected of causing cancer.
  May cause damage to organs through prolonged or repeated exposure.

- Precautionary statements
  Do not breathe dust/fume/gas/mist/vapors/spray.
  [In case of inadequate ventilation] wear respiratory protection.
  Wear protective gloves / protective clothing.
  Wash thoroughly after handling.
  Do not eat, drink or smoke when using this product.
  Contaminated work clothing must not be allowed out of the workplace.
  Obtain special instructions before use.
  Do not handle until all safety precautions have been read and understood.
  If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
  Continue rinsing.
  Specific treatment (see on this label).
  If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
  IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
  Wash contaminated clothing before reuse.
  If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
  IF exposed or concerned: Get medical advice/attention.
  If skin irritation or rash occurs: Get medical advice/attention.
  If eye irritation persists: Get medical advice/attention.
  Get medical advice/attention if you feel unwell.
  Rinse mouth.
  IF ON SKIN: Wash with plenty of water.
  Take off contaminated clothing and wash it before reuse.
  Store locked up.
  Dispose of contents/container in accordance with local/regional/national/international regulations.
Trade name: RHODINILE BLUE STAIN SOLUTION

- 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: 06/16/2016 / -
- Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  DOT: US Department of Transportation
  IATA: International Air Transport Association
  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
  Acute Tox. 4: Acute toxicity, Hazard Category 4
  Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
  Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B
  Resp. Sens. 1B: Sensitisation - Respirat., Hazard Category 1B
  Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B
  Mut. 2: Germ cell mutagenicity, Hazard Category 2
  Carc. 2: Carcinogenicity, Hazard Category 2
  STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
  - **Trade name:** RHODINILE BLUE STAIN SOLUTION
  - **Article number:** 26162-01

- **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: sgkcek@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)

  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 Hazards identification

- **Classification of the substance or mixture**

  ![Alert Symbol]
  
  GHS08 health hazard

  - Resp. Sens. 1B H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - Muta. 2 H341 Suspected of causing genetic defects.
  - Carc. 2 H351 Suspected of causing cancer.

  STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

  ![Alert Symbol]
  
  GHS07

  - Acute Tox. 4 H302 Harmful if swallowed.
  - Acute Tox. 4 H312 Harmful in contact with skin.
  - Skin Irrit. 2 H315 Causes skin irritation.
  - Eye Irrit. 2 H319 Causes serious eye irritation.

(Contd. on page 2)
Trade name: RHODINILE BLUE STAIN SOLUTION

Skin Sens. 1B  H317 May cause an allergic skin reaction.

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

GHS07  GHS08

· Signal word Danger
· Hazard statements
Harmful if swallowed or in contact with skin.
Causes skin irritation.
Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
Suspected of causing genetic defects.
Suspected of causing cancer.
May cause damage to organs through prolonged or repeated exposure.

· Precautionary statements
Do not breathe dust/fume/gas/mist/vapours/spray.
[In case of inadequate ventilation] wear respiratory protection.
Wear protective gloves / protective clothing.
Wear eye protection / face protection.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see on this label).
If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
Wash contaminated clothing before reuse.
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
Rinse mouth.
IF ON SKIN: Wash with plenty of water.
Take off contaminated clothing and wash it before reuse.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· Other hazards
· Results of PBT and vPvB assessment
· PBT: Not applicable.
· vPvB: Not applicable.
3 Composition/information on ingredients

- **Chemical characterisation**: Mixtures
- **Description**: Mixture of substances listed below with nonhazardous additions.

#### Dangerous components:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>RHODANINE BLUE</td>
<td>≤ 2,5%</td>
</tr>
</tbody>
</table>

- Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **Description of first aid measures**
- **General information**: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation**: Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact**: Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing**: Call for a doctor immediately.
- **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 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **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). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- **Reference to other sections**
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.
7 Handling and storage

- **Handling:**
  - **Precautions for safe handling:**
    Ensure good ventilation/exhaustion at the workplace.
    Prevent formation of aerosols.
  - **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:** Keep container tightly sealed.
  - **Specific end use(s) No further relevant information available.**

8 Exposure controls/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:**
        Keep away from foodstuffs, beverages and feed.
        Immediately remove all soiled and contaminated clothing
        Wash hands before breaks and at the end of work.
        Avoid contact with the eyes and skin.
      - **Respiratory protection:**
        In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
    - **Protection of hands:**
      Protective gloves
      The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
      Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
      Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
    - **Material of gloves**
      The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
    - **Penetration time of glove material**
      The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
9 Physical and chemical properties

- Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Liquid
      - Colour: Dark red
    - Odour:
      - Odour: Characteristic
      - Odour threshold: Not determined.
    - pH-value: Not determined.
  - Change in condition
    - Melting point/Melting range: Undetermined.
    - Boiling point/Boiling range: 100 °C
  - Flash point: Not applicable.
  - Flammability (solid, gaseous): Not applicable.
  - Ignition temperature:
    - Decomposition temperature: Not determined.
  - Self-igniting: Product is not selfigniting.
  - Danger of explosion: Product does not present an explosion hazard.
  - Explosion limits:
    - Lower: Not determined.
    - Upper: Not determined.
  - Vapour pressure: Not determined.
  - Density at 20 °C: 1.01094 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.
  - Solvent content:
    - Organic solvents: 0.0 %
    - Water: 98.5 %
    - VOC (EC): 0.00 %
    - Solids content: 1.5 %
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: Irritant to skin and mucous membranes.
      - Serious eye damage/irritation: Irritating effect.
      - Respiratory or skin sensitisation: Sensitisation possible through inhalation. Sensitisation possible through skin contact.
  - Additional toxicological information:
    The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
    - Harmful
    - Irritant
  - CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
    - Muta. 2, Carc. 2

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: Generally not hazardous for 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
  Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
  - ADG, ADN, IMDG, IATA: not regulated
- UN proper shipping name
  - ADG, ADN, IMDG, IATA: not regulated
- Transport hazard class(es)
  - ADG, ADN, IMDG, IATA
  - Class: not regulated
- Packing group
  - ADG, IMDG, IATA: not regulated
- 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.
- UN "Model Regulation": not regulated

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Australian Inventory of Chemical Substances
  - 7647-14-5 sodium chloride
  - 7732-18-5 water, distilled, conductivity or of similar purity
- Standard for the Uniform Scheduling of Medicines and Poisons
  None of the ingredients is listed.
- GHS label elements
  The product is classified and labelled according to the Globally Harmonised System (GHS).
- Hazard pictograms
  GHS07  GHS08
- Signal word
  Danger
- Hazard statements
  Harmful if swallowed or in contact with skin.
  Causes skin irritation.
Trade name: RHODINILE BLUE STAIN SOLUTION

Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
Suspected of causing genetic defects.
Suspected of causing cancer.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements
Do not breathe dust/fume/gas/mist/vapours/spray.
[In case of inadequate ventilation] wear respiratory protection.
Wear protective gloves / protective clothing.
Wear eye protection / face protection.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Specific treatment (see on this label).
If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
Wash contaminated clothing before reuse.
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
Rinse mouth.
IF ON SKIN: Wash with plenty of water.
Take off contaminated clothing and wash it before reuse.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Directive 2012/18/EU

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:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Resp. Sens. 1B: Sensitisation - Respirat., Hazard Category 1B
Trade name: RHODINILE BLUE STAIN SOLUTION

Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B
Muta. 2: Germ cell mutagenicity, Hazard Category 2
Carc. 2: Carcinogenicity, Hazard Category 2
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
# 1 Identification

- **Product identifier**
  - **Trade name:** RHODINILE BLUE STAIN SOLUTION
  - **Article number:** 26162-01
  - **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: sgkceck@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**
  - GHS08 Health hazard
    - Respiratory Sensitizer - Category 1B
      - H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
    - Germ Cell Mutagenicity - Category 2
      - H341 Suspected of causing genetic defects.
    - Carcinogenicity – Category 2
      - H351 Suspected of causing cancer.
    - Specific Target Organ Toxicity - Repeated Exposure - Category 2
      - H373 May cause damage to organs through prolonged or repeated exposure.

  - GHS07
    - Acute Toxicity (Oral) - Category 4
      - H302 Harmful if swallowed.
    - Acute Toxicity (Dermal) – Category 4
      - H312 Harmful in contact with skin.
    - Skin Sensitizer - Category 1B
      - H317 May cause an allergic skin reaction.
    - Skin Corrosion - Category 3
      - H316 Causes mild skin irritation.
    - Eye Irritation - Category 2B
      - H320 Causes eye irritation.

- **Label elements**
  - **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms**
    - GHS07  GHS08

- **Signal word** Danger

(Contd. on page 2)
Trade name: RHODINILE BLUE STAIN SOLUTION

- **Hazard statements**
  Harmful if swallowed or in contact with skin.
  Causes mild skin irritation.
  Causes eye irritation.
  May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  May cause an allergic skin reaction.
  Suspected of causing genetic defects.
  Suspected of causing cancer.
  May cause damage to organs through prolonged or repeated exposure.

- **Precautionary statements**
  Do not breathe dust/fume/gas/mist/vapours/spray.
  [In case of inadequate ventilation] wear respiratory protection.
  Wear protective gloves/protective clothing/eye protection/face protection.
  Wash thoroughly after handling.
  Do not eat, drink or smoke when using this product.
  Contaminated work clothing should not be allowed out of the workplace.
  Obtain special instructions before use.
  Do not handle until all safety precautions have been read and understood.
  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  Specific measures (see on this label).
  If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
  IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
  IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  Wash contaminated clothing before reuse.
  IF exposed or concerned: Get medical advice/attention.
  If skin irritation or rash occurs: Get medical advice/attention.
  If eye irritation persists: Get medical advice/attention.
  Get medical advice/attention if you feel unwell.
  Rinse mouth.
  IF ON SKIN: Wash with plenty of water.
  Take off contaminated clothing and wash it before reuse.
  Store locked up.
  Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Hazard description:**
- **WHMIS-symbols:**
  D2A - Very toxic material causing other toxic effects

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**
  Health = 2
  Fire = 0
  Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**
  HEALTH 2 Health = 2
  FIRE 0 Fire = 0
  REACTIVITY 0 Reactivity = 0
Trade name: RHODINILE BLUE STAIN SOLUTION

- 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:
  - RHODANINE BLUE ≤ 1% w/w

4 First-aid measures

- Description of first aid measures
  - General information: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
  - After inhalation: Supply fresh air and to be sure call for a doctor.
    - In case of unconsciousness place patient stably in side position for transportation.
  - After skin contact: Immediately wash with water and soap and rinse thoroughly.
  - After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - After swallowing: Immediately call a 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: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- 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).
  - Dispose contaminated material as waste according to item 13.
  - Ensure adequate ventilation.

- Reference to other sections
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
7 Handling and storage

· Handling:
  · Precautions for safe handling
    Ensure good ventilation/exhaustion at the workplace.
    Prevent formation of aerosols.
  · Information about protection against explosions and fires: No special measures required.
  · Conditions for safe storage, including any incompatibilities
  · Storage:
    · Requirements to be met by storerooms and receptacles: No special requirements.
    · Information about storage in one common storage facility: Not required.
    · Further information about storage conditions: Keep receptacle tightly sealed.
  · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.
· Control parameters
· Components with limit values that require monitoring at the workplace:
  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
  · General protective and hygienic measures:
    Keep away from foodstuffs, beverages and feed.
    Immediately remove all soiled and contaminated clothing.
    Wash hands before breaks and at the end of work.
    Avoid contact with the eyes and skin.
  · Breathing equipment:
    In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
  · Protection of hands:

  Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 5)
### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**
    - **Form:** Liquid
    - **Color:** Dark red
    - **Odor:** Characteristic
    - **Odor threshold:** Not determined.
  - **pH-value:** Not determined.

- **Change in condition**
  - **Melting point/Melting range:** Undetermined.
  - **Boiling point/Boiling range:** 100 °C

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Not flammable.

- **Ignition temperature:**
  - **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:** 1.01094 g/cm³
  - **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:**
  - **Organic solvents:** 0.0 %
  - **Water:** 98.5 %
  - **Solids content:** 1.5 %
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: Irritant to skin and mucous membranes.
    - on the eye: Irritating effect.
- Sensitization:
  - Sensitization possible through inhalation.
  - Sensitization possible through skin contact.
- Additional toxicological information:
  - The product shows the following dangers according to internally approved calculation methods for preparations:
    - Harmful
    - Irritant
  - Carcinogenic categories
    - IARC (International Agency for Research on Cancer)
      None of the ingredients is listed.
    - NTP (National Toxicology Program)
      None of the ingredients is listed.
    - OSHA-Ca (Occupational Safety Health Administration)
      None of the ingredients is listed.

12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- Behavior in environmental systems:
- Bioaccumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.
- Additional ecological information:
  - General notes: Generally not hazardous for water
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
Trade name: RHODINILE BLUE STAIN SOLUTION

- Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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

14 Transport information

- UN-Number
  - DOT, TDG, ADN, IMDG, IATA: Void

- UN proper shipping name
  - DOT, TDG, ADN, IMDG, IATA: Void

- Transport hazard class(es)
  - DOT, TDG, ADN, IMDG, IATA: Void

- Class: Void

- Packing group
  - DOT, TDG, IMDG, IATA: Void

- 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.

- UN "Model Regulation": Void

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):
    - 7647-14-5 sodium chloride
    - 7732-18-5 water, distilled, conductivity or of similar purity

  - Proposition 65
    - Chemicals known to cause cancer:
      - None of the ingredients is listed.
### 42.0

- **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.

### Canadian substance listings:

- **Canadian Domestic Substances List (DSL)**
  - 7647-14-5 sodium chloride
  - 7732-18-5 water, distilled, conductivity or of similar purity

- **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

- The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Signal word** Danger

- **Hazard statements**
  - Harmful if swallowed or in contact with skin.
  - Causes mild skin irritation.
  - Causes eye irritation.
  - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - May cause an allergic skin reaction.
  - Suspected of causing genetic defects.
  - Suspected of causing cancer.
  - May cause damage to organs through prolonged or repeated exposure.

### Precautionary statements

- Do not breathe dust/fume/gas/mist/vapours/spray.
- [In case of inadequate ventilation] wear respiratory protection.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.
- Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific measures (see on this label).

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Rinse mouth.

IF ON SKIN: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

Store locked up.

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

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

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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 06/16/2016 /

· Abbreviations and acronyms:
  IMDG: International Maritime Code for Dangerous Goods
  DOT: US Department of Transportation
  IATA: International Air Transport Association
  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)
  WHMIS: Workplace Hazardous Materials Information System (Canada)
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
  NIOSH: National Institute for Occupational Safety Health
  OSHA: Occupational Safety Health
  Acute Toxicity (Oral) - Category 4: Acute toxicity, Hazard Category 4
  Skin Corrosion - Category 3: Skin corrosion/irritation, Hazard Category 3
  Eye Irritation - Category 2B: Serious eye damage/eye irritation, Hazard Category 2B
  Respiratory Sensitizer - Category 1B: Sensitisation - Respirat., Hazard Category 1B
  Skin Sensitizer - Category 1B: Sensitisation - Skin, Hazard Category 1B
  Germ Cell Mutagenicity - Category 2: Germ cell mutagenicity, Hazard Category 2
  Carcinogenicity – Category 2: Carcinogenicity, Hazard Category 2
  Specific Target Organ Toxicity - Repeated Exposure - Category 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: RHODINILE BLUE STAIN SOLUTION

Article number: 26162-01

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: sgkcek@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

GHS08 health hazard

Resp. Sens. 1B H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Muta. 2 H341 Suspected of causing genetic defects.
Carc. 2 H351 Suspected of causing cancer.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H312 Harmful in contact with skin.
Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1B H317 May cause an allergic skin reaction.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS07  GHS08

Signal word Danger

(Contd. on page 2)
Trade name: RHODINILE BLUE STAIN SOLUTION

- **Hazard statements**
  - H302+H312 Harmful if swallowed or in contact with skin.
  - H315 Causes skin irritation.
  - H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - H317 May cause an allergic skin reaction.
  - H341 Suspected of causing genetic defects.
  - H351 Suspected of causing cancer.
  - H373 May cause damage to organs through prolonged or repeated exposure.

- **Precautionary statements**
  - P280 Wear protective gloves/protective clothing/eye protection/face protection.
  - P284 [In case of inadequate ventilation] wear respiratory protection.
  - P280 Wear protective gloves/protective clothing/eye protection/face protection.
  - P321 Specific treatment (see on this label).
  - P405 Store locked up.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **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:

- RHODANINE BLUE
  - *Carc. 2, H351* ≤ 2.5%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

---

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
  - **General information:**
    - Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
  - **After inhalation:**
    - Supply fresh air and to be sure call for a doctor.
    - In case of unconsciousness place patient stably in side position for transportation.
  - **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
  - **After eye contact:**
    - Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - **After swallowing:** Call for a doctor immediately.

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

- **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:**
    - CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **5.2 Special hazards arising from the substance or mixture**
  - No further relevant information available.
Trade name: RHODINILE BLUE STAIN SOLUTION

- **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).
  Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.
- **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**
  Ensure good ventilation/exhaustion at the workplace.
  Prevent formation of aerosols.
- **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:** Keep container tightly sealed.
- **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**
  General protective and hygienic measures:
  Keep away from foodstuffs, beverages and feed.
  Immediately remove all soiled and contaminated clothing
  Wash hands before breaks and at the end of work.
  Avoid contact with the eyes and skin.
  Respiratory protection:
  In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Trade name: RHODINILE BLUE STAIN SOLUTION

- Protection of hands:

  Protective gloves

  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

- Material of gloves

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

- Penetration time of glove material

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

- Eye protection:

  Tightly sealed goggles

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

  · General Information

    · Appearance:

      Form: Liquid
      Colour: Dark red

    · Odour:

      Odour: Characteristic
      Odour threshold: Not determined.

    · pH-value:

      Not determined.

    · Change in condition

      Melting point/Melting range: Undetermined.
      Boiling point/Boiling range: 100 °C

    · Flash point:

      Not applicable.

    · Flammability (solid, gaseous):

      Not applicable.

    · Ignition temperature:

      Decomposition temperature: Not determined.

    · Self-igniting:

      Product is not selfigniting.

    · Danger of explosion:

      Product does not present an explosion hazard.

    · Explosion limits:

      Lower: Not determined.
      Upper: Not determined.

    · Vapour pressure:

      Not determined.

    · Density at 20 °C:

      1.01094 g/cm³
Trade name: RHODINILE BLUE STAIN SOLUTION

- 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.
- Solvent content:
  - Organic solvents: 0.0 %
  - Water: 98.5 %
  - VOC (EC): 0.00 %
- Solids content: 1.5 %
- 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
  Harmful if swallowed or in contact with skin.
- Primary irritant effect:
- Skin corrosion/irritation
  Causes skin irritation.
- Serious eye damage/irritation
  Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation
  May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause an allergic skin reaction.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity
  Suspected of causing genetic defects.
- Carcinogenicity
  Suspected of causing cancer.
- 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
  May cause damage to organs through prolonged or repeated exposure.

(Contd. on page 6)
**Trade name: RHODINILE BLUE STAIN SOLUTION**

- **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: Generally not hazardous for 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: Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging**:
  - Recommendation: Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- **14.1 UN-Number**
  - ADR, ADN, IMDG, IATA: Not regulated
- **14.2 UN proper shipping name**
  - ADR, ADN, IMDG, IATA: Not regulated
- **14.3 Transport hazard class(es)**
  - ADR, ADN, IMDG, IATA: Not regulated
- **14.4 Packing group**
  - ADR, IMDG, IATA: Not regulated
- **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.
- **UN "Model Regulation"**: Not regulated
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.

· Relevant phrases
  H351 Suspected of causing cancer.

· Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  IATA: International Air Transport Association
  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
  Acute Tox. 4: Acute toxicity, Hazard Category 4
  Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
  Resp. Sens. 1B: Sensitisation - Respirat., Hazard Category 1B
  Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B
  Muta. 2: Germ cell mutagenicity, Hazard Category 2
  Carc. 2: Carcinogenicity, Hazard Category 2
  STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
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datum van de druk: 16.06.2016

RUBRIEK 1: Identificatie van de stof of het mengsel en van de vennootschap/onderneming

· 1.1 Productidentificatie

  · Handelsnaam: RHODINILE BLUE STAIN SOLUTION
  · Artikelnr.: 26162-01

· 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: sgkcek@aol.com  
    www.emsdiasum.com  

  · Aurion  
    Binnenhaven 5  
    6709 PD Wageningen  
    The Netherlands  
    Tel: 31 317 415094  
    Fax: 31 317 415955  
    email: info@aurion.nl  

  · 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
    GHS08 gezondheidsgevaar

    Resp. Sens. 1B H334 Kan bij inademing allergie- of astmasymptomen of ademhalingsmoeiligheden veroorzaken.
    Muta. 2 H341 Verdacht van het veroorzaken van genetische schade.
    Carc. 2 H351 Verdacht van het veroorzaken van kanker.
    STOT RE 2 H373 Kan schade aan organen veroorzaken bij langdurige of herhaalde blootstelling.

    GHS07

    Acute Tox. 4 H302 Schadelijk bij inslikken.
    Acute Tox. 4 H312 Schadelijk bij contact met de huid.
    Skin Irrit. 2 H315 Veroorzaakt huidirritatie.
    Skin Sens. 1B H317 Kan een allergische huidreactie veroorzaken.

· 2.2 Etiketteringselementen

  · Etikettering overeenkomstig Verordening (EG) nr. 1272/2008
    Het product is geclasseerd en geëtiketteerd volgens de CLP-verordening.

(Vervolg op blz. 2)
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- Gevarenpictogrammen

GHS07 GHS08

- Signaalwoord Gevaar
- Gevaarenaanduidingen
H302+H312 Schadelijk bij inslikken en bij contact met de huid.
H315 Veroorzaakt huidirritatie.
H334 Kan bij inademing allergie- of astmasymptomen of ademhalingsmoeilijkheden veroorzaken.
H317 Kan een allergische huidreactie veroorzaken.
H351 Verdacht van het veroorzaken van kanker.
H317 Kan schade aan organen veroorzaken bij langdurige of herhaalde blootstelling.

- Veiligheidsaanbevelingen
P260 Stof/rook/gas/nevel/damp/spuitnevel niet inademen.
P284 [Bij ontoereikende ventilatie] adembescherming dragen.
P280 Beschermende handschoenen/beschermende kleding/ogenscherming/gelaatsbescherming dragen.
P321 Specifieke behandeling vereist (zie op dit etiket).
P405 Achter slot bewaren.
P501 De inhoud en de verpakking verwerken volgens de plaatselijke/regionale/nationale/internationale voorschriften.

- 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:
  RHODANINE BLUE
  Carc. 2, H351 ≤ 2,5%

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

RUBRIEK 4: Eerstehulpmaatregelen

- 4.1 Beschrijving van de eerstehulpmaatregelen
  - Algemene informatie:
    Het is mogelijk dat vergiftigingsymptomen pas na vele uren optreden. Om deze reden is medische controle gedurende minstens 48 uur na een ongeval noodzakelijk.
  - Na het inademen:
    Veel verse lucht toedienen en voor alle zekerheid een arts raadplegen.
    Bij bewusteloosheid liggen en vervoer in stabiele zijligging.
  - Na huidcontact: Onmiddellijk met water en zeep afwassen en goed naspoelen.
  - Na oogcontact:
    De ogen gedurende verscheidene minuten onder stromend water afspoelen terwijl de oogspleet geopend blijft. Bij aanhoudende klachten een dokter raadplegen.
  - Na inslikken: Onmiddellijk arts raadplegen.

(Vervolg op blz. 3)
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- 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: CO2, bluspoeder of waterstraal. Grotere brand met waterstraal bestrijden of met schuim, dat tegen alcohol bestand is.
- 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.
  - Besmet materiaal zoals afval volgens punt 13 verwijderen.
  - Voor voldoende ventilatie zorgen.
- 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
  - Voor goede ventilatie/afzuiging op de werkplaatsen zorgen.
  - Aërosolvorming vermijden.
  - Informatie m.b.t. brand- en ontploffingsgevaar: Geen bijzondere maatregelen noodzakelijk.
- 7.2 Voorwaarden voor een veilige opslag, met inbegrip van incompatibele producten
  - Opslag:
  - Eisen ten opzichte van opslagrauimte en tanks: Geen bijzondere eisen.
  - Informatie m.b.t. gezamenlijke opslag: Niet noodzakelijk.
  - Verdere inlichtingen over eisen m.b.t. de opslag: Tanks ondoorlopendbaar gesloten houden.
- 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.
- 8.1 Controleparameters
  - Bestanddelen met grenswaarden die m.b.t. de werkruiuwte 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 dienden lijsten die bij opstelling geldig waren.
8.2 Maatregelen ter beheersing van blootstelling

Persoonlijke beschermingsvoorzieningen:

Algemene beschermings- en gezondheidsmaatregelen:
Verwijderd houden van eet- en drinkwaren.
Verontreinigde kleding onmiddellijk uittrekken.
Vóór de pauze en aan het einde van werktijd handen wassen.
Aanraking met de ogen en de huid vermijden.

Ademhalingsbescherming:
Bij korte of geringe belasting ademfiltertoestel; bij intensieve resp. langdurige expositie een van de omringende lucht onafhankelijk ademhalingstoestel gebruiken.

Handbescherming:
Veiligheidshandschoenen

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 chemicalienengsel afgegeven 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 kwaliteitskenmerken en verschilt van fabrikant tot fabrikant. Aangezien het product uit meerdere stoffen is samengesteld, is de duurzaamheid van de handschoenmaterialen niet vooraf berekenbaar en moet derhalve vóór het gebruik worden getest.

Doordringingstijd van het handschoenmateriaal
De precieze penetratietijd kunt u te weten komen bij de handschoenfabrikant; houd er rekening mee.

Oogbescherming:
Nauw aansluitende veiligheidsbril

RUBRIEK 9: Fysische en chemische eigenschappen

9.1 Informatie over fysische en chemische basiseigenschappen
Algemene gegevens

Vorm: Vloeistof
Kleur: Donkerrood
Reuk: Karakteristiek
Geurdrempelwaarde: Niet bepaald.

pH-waarde: Niet bepaald.

Toestandsverandering
Smeltpunt/smeltbereik: Niet bepaald.
Kookpunt/kookpuntbereik: 100 °C

Vlampaunt: Niet bruikbaar.

Ontvlambaarheid (vast, gasvormig): Niet bruikbaar.
**Veiligheidsinformatieblad volgens 1907/2006/EG, Artikel 31**

datum van de druk: 16.06.2016

**Veiligheidsinformatieblad**
volgens 1907/2006/EG, Artikel 31

Handelsnaam: RHODINILE BLUE STAIN SOLUTION

- **Ontstekingstemperatuur:**
  - Niet bepaald.

- **Ontbindingstemperatuur:**
  - Niet bepaald.

- **Zelfonsteking:**
  - Het produkt ontbrandt niet uit zichzelf.

- **Ontploffingsgevaar:**
  - Het produkt is niet ontploffingsgevaarlijk.

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

- **Dampspanning:**
  - Niet bepaald.

- **Dichtheid bij 20 °C:**
  - 1.01094 g/cm³

- **Relatieve dichtheid:**
  - Niet bepaald.

- **Dampdichtheid:**
  - Niet bepaald.

- **Verdampingssnelheid:**
  - Niet bepaald.

- **Oplosbaarheid in/mengbaarheid met Water:**
  - Niet resp. gering mengbaar.

- **Verdelingscoëfficiënt (n-octanol/water):**
  - Niet bepaald.

- **Viscositeit**
  - Dynamisch: Niet bepaald.
  - Kinematisch: Niet bepaald.

- **Oplosmiddelgehalte:**
  - Organisch oplosmiddel: 0.0 %
  - Water: 98.5 %
  - VOC (EG): 0.00 %

- **Gehalte aan vaste bestanddelen:**
  - 1.5 %

- **9.2 Overige informatie**
  - Geen verdere relevante informatie verkrijgbaar.

**RUBRIEK 10: Stabiliteit en reactiviteit**

- **10.1 Reactiviteit**
  - Geen verdere relevante informatie verkrijgbaar.

- **10.2 Chemische stabiliteit**

- **Thermische afbraak / te vermijden omstandigheden:**
  - Geen afbraak bij gebruik volgens voorschrift.

- **10.3 Mogelijke gevaarlijke reacties**
  - Geen gevaarlijke reacties bekend.

- **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 ontledingsproducten**
  - Geen gevaarlijke ontdelingsproducten bekend.

**RUBRIEK 11: Toxicologische informatie**

- **11.1 Informatie over toxicologische effecten**

- **Acute toxiciteit**
  - Schadelijk bij inslikken en bij contact met de huid.

- **Primaire aandoening:**
  - Huidcorrosie/-irritatie
  - Veroorzaakt huidirritatie.

- **Ernstig oogletsel/oogirritatie**
  - Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

(Vervolg op blz. 6)
Handelsnaam: RHODINILE BLUE STAIN SOLUTION

- Sensibilisatie van de luchtwegen/de huid
  Kan bij inademing allergie- of astmasymptomen of ademhalingsmoeilijkheden veroorzaken.
- CMR-effecten (kankerverwekkendheid, mutageniteit en giftigheid voor de voortplanting)
- Mutageniteit in geslachtscellen
  Verdacht van het veroorzaken van genetische schade.
- Kankerverwekkendheid
  Verdacht van het veroorzaken van kanker.
- 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
  Kan schade aan organen veroorzaken bij langdurige of herhaalde blootstelling.
- 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 Mobiliteit in de bodem
  - Geen verdere relevante informatie verkrijgbaar.
- 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: Mag niet tesamen met huisvuil gestort worden of in de riolering terechtkomen.
- 13.2 Niet gereinigde verpakkingen
  - Aanbeveling: Afvalverwijdering volgens overheidsbepalingen.

RUBRIEK 14: Informatie met betrekking tot het vervoer

- 14.1 VN-nummer
  - ADR, ADN, IMDG, IATA
    Nicht van toepassing
- 14.2 Juiste ladingnaam overeenkomstig de modelreglementen van de VN
  - ADR, ADN, IMDG, IATA
    Nicht van toepassing
- 14.3 Transportgevaarklasse(n)
  - ADR, ADN, IMDG, IATA
    Klasse
    Nicht van toepassing

(Vervolg op blz. 7)
RUBRIEK 15: Regelgeving

15.1 Specifieke veiligheids-, gezondheids- en milieureglementen en -wetgeving voor de stof of het mengsel

15.1.1 SZW-lijst van kankerverwekkende stoffen
gen geen der bestanddelen staat op de lijst.

15.1.2 SZW-lijst van mutagene stoffen
gen geen der bestanddelen staat op de lijst.

15.1.3 NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Vruchtbaarheid
gen geen der bestanddelen staat op de lijst.

15.1.4 NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling
gen geen der bestanddelen staat op de lijst.

15.1.5 NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding
gen geen der bestanddelen staat op de lijst.

15.2 Richtlijn 2012/18/EU

15.2.1 Gevaarlijke stoffen die met naam genoemd worden - BIJLAGE I geen der bestanddelen staat op de lijst.

15.2.2 Nationale voorschriften:

- Gevaarklasse v. water: Waterbezwaarlijkheid (NL) 11: Saneringsinspanning B
- 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 producteigenschappen en vestigen geen contractuele rechtsbetrekking.

- Relevant zinnen
  H351 Verdacht van het veroorzaken van kanker.

- Afkortingen en acroniemen:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  IATA: International Air Transport Association
  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
  Acute Tox. 4: Acute toxicity, Hazard Category 4
  Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
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Respir. Sens. 1B: Sensitisation - Respirat., Hazard Category 1B
Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B
Muta. 2: Germ cell mutagenicity, Hazard Category 2
Carc. 2: Carcinogenicity, Hazard Category 2
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Fiche de données de sécurité selon 1907/2006/CE, Article 31

Date d'impression : 16.06.2016 Révision: 16.06.2016

**RUBRIQUE 1: Identification de la substance/du mélange et de la société/l'entreprise**

- 1.1 Identificateur de produit
  - Nom du produit: RHODINILE BLUE STAIN SOLUTION
  - Code du produit: 26162-01

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

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

  GHS08 danger pour la santé

  Resp. Sens. 1B H334 Peut provoquer des symptômes allergiques ou d'asthme ou des difficultés respiratoires par inhalation.
  Muta. 2 H341 Susceptible d'induire des anomalies génétiques.
  Carc. 2 H351 Susceptible de provoquer le cancer.
  STOT RE 2 H373 Risque présumé d'effets graves pour les organes à la suite d'expositions répétées ou d'une exposition prolongée.

  GHS07

  Acute Tox. 4 H302 Nocif en cas d'ingestion.
  Acute Tox. 4 H312 Nocif par contact cutané.
  Skin Irrit. 2 H315 Provoque une irritation cutanée.
  Skin Sens. 1B H317 Peut provoquer une allergie cutanée.

- 2.2 Éléments d'étiquetage
  - Etiquetage selon le règlement (CE) n° 1272/2008 Le produit est classifié et étiqueté selon le règlement CLP.
  - Pictogrammes de danger

  !!!!

  GHS07 GHS08

  **Mention d'avertissement** Danger

(suite page 2)
Nom du produit: RHODINILE BLUE STAIN SOLUTION

· Mentions de danger
  H302+H312 Nocif en cas d’ingestion ou de contact cutané.
  H315 Provoque une irritation cutanée.
  H334 Peut provoquer des symptômes allergiques ou d’asthme ou des difficultés respiratoires par inhalation.
  H317 Peut provoquer une allergie cutanée.
  H341 Susceptible d’induire des anomalies génétiques.
  H351 Susceptible de provoquer le cancer.
  H373 Risque présumé d’effets graves pour les organes à la suite d’expositions répétées ou d’une exposition prolongée.

· Conseils de prudence
  P260 Ne pas respirer les poussières/fumées/gaz/brouillards/vapeurs/aérosols.
  P284 [Lorsque la ventilation du local est insuffisante] porter un équipement de protection respiratoire.
  P280 Porter des gants de protection/des vêtements de protection/un équipement de protection des yeux/du visage.
  P321 Traitement spécifique (voir sur cette étiquette).
  P405 Garder sous clef.
  P501 Éliminer le contenu/récipient conformément à la réglementation locale/régionale/nationale/internationale.

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:
  RHODANINE BLUE 
  · 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:
    Les symptômes d’intoxication peuvent apparaître après de nombreuses heures seulement; une surveillance médicale est donc nécessaire au moins 48 heures après un accident.
  · Après inhalation:
    Donner de l’air frais en abondance et consulter un médecin pour plus de sécurité.
    En cas d’inconscience, coucher et transporter la personne en position latérale stable.
  · Après contact avec la peau: Laver immédiatement à l’eau et au savon et bien rincer.
  · Après contact avec les yeux:
    Rincer les yeux, pendant plusieurs minutes, sous l’eau courante en écartant bien les paupières. Si les troubles persistent, consulter un médecin.
  · Après ingestion: Consulter immédiatement un médecin.

· 4.2 Principaux symptômes et effets, aigus et différés
  Pas d’autres informations importantes disponibles.

· 4.3 Indication des éventuels soins médicaux immédiats et traitements particuliers nécessaires
  Pas d’autres informations importantes disponibles.
Nom du produit: RHODINILE BLUE STAIN SOLUTION

RUBRIQUE 5: Mesures de lutte contre l’incendie

- 5.1 Moyens d’extinction
- Moyens d’extinction:
  CO2, poudre d’extinction ou eau pulvérisée. Combattre les foyers importants avec de l’eau pulvérisée ou de la mousse résistant à l’alcool.
- 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, scure).
  Évacuer les matériaux contaminés en tant que déchets conformément au point 13.
  Assurer une aération suffisante.
- 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
  Veiller à une bonne ventilation/aspiration du poste de travail.
  Eviter la formation d’aérosols.
- Préventions des incendies et des explosions: 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: Tenir les emballages hermétiquement fermés.
- 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.
Nom du produit: RHODINILE BLUE STAIN SOLUTION

8.2 Contrôles de l'exposition

- Equipement de protection individuel:

- Mesures générales de protection et d'hygiène:
  Tenir à l'écart des produits alimentaires, des boissons et de la nourriture pour animaux.
  Retirer immédiatement les vêtements souillés ou humectés.
  Se laver les mains avant les pauses et en fin de travail.
  Éviter tout contact avec les yeux et avec la peau.

- Protection respiratoire:
  En cas d'exposition faible ou de courte durée, utiliser un filtre respiratoire; en cas d'exposition intense ou
durable, utiliser un appareil de respiration indépendant de l'air ambiant.

- Protection des mains:

  Gants de protection

  Le matériau des gants doit être imperméable et résistant au produit / à la substance / à la préparation.
  À 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 hermétiques

RUBRIQUE 9: Propriétés physiques et chimiques

- 9.1 Informations sur les propriétés physiques et chimiques essentielles

  - Indications générales

  - Aspect:
    - Forme: Liquide
    - Couleur: Rouge foncé
    - Odeur: Caractéristique
    - Seuil olfactif: Non déterminé.
  - valeur du pH: Non déterminé.
  - Changement d'état
    - Point de fusion: Non déterminé.
    - Point d'ébullition: 100 °C
  - Point d'éclair: Non applicable.
  - Inflammabilité (solide, gazeux): Non applicable.
**Fiche de données de sécurité**
*selon 1907/2006/CE, Article 31*

**Nom du produit:** RHODINILE BLUE STAIN SOLUTION

<table>
<thead>
<tr>
<th><strong>température d'inflammation:</strong></th>
<th>Non déterminé.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>température de décomposition:</strong></td>
<td>Non déterminé.</td>
</tr>
<tr>
<td><strong>auto-inflammation:</strong></td>
<td>Le produit ne s'enflamme pas spontanément.</td>
</tr>
<tr>
<td><strong>danger d'explosion:</strong></td>
<td>Le produit n'est pas explosif.</td>
</tr>
<tr>
<td><strong>limites d'explosion:</strong></td>
<td>Non déterminé.</td>
</tr>
<tr>
<td>Inférieure</td>
<td>Non déterminé.</td>
</tr>
<tr>
<td>Supérieure</td>
<td>Non déterminé.</td>
</tr>
<tr>
<td><strong>pression de vapeur:</strong></td>
<td>Non déterminé.</td>
</tr>
<tr>
<td><strong>densité à 20 °C:</strong></td>
<td>1.01094 g/cm³</td>
</tr>
<tr>
<td><strong>densité relative:</strong></td>
<td>Non déterminé.</td>
</tr>
<tr>
<td><strong>densité de vapeur:</strong></td>
<td>Non déterminé.</td>
</tr>
<tr>
<td><strong>vitesse d'évaporation:</strong></td>
<td>Non déterminé.</td>
</tr>
<tr>
<td><strong>solubilité dans/miscibilité avec l'eau:</strong></td>
<td>Pas ou peu miscible</td>
</tr>
<tr>
<td><strong>Coefficient de partage (n-octanol/eau):</strong></td>
<td>Non déterminé.</td>
</tr>
<tr>
<td><strong>viscosité:</strong></td>
<td>Non déterminé.</td>
</tr>
<tr>
<td>Dynamique</td>
<td>Non déterminé.</td>
</tr>
<tr>
<td>Cinématique</td>
<td>Non déterminé.</td>
</tr>
<tr>
<td><strong>teneur en solvants:</strong></td>
<td>0.0 %</td>
</tr>
<tr>
<td>Solvants organiques</td>
<td>0.0 %</td>
</tr>
<tr>
<td>Eau</td>
<td>98.5 %</td>
</tr>
<tr>
<td>VOC (CE)</td>
<td>0,00 %</td>
</tr>
<tr>
<td><strong>teneur en substances solides:</strong></td>
<td>1.5 %</td>
</tr>
<tr>
<td><strong>9.2 Autres informations</strong></td>
<td>Pas d'autres informations importantes disponibles.</td>
</tr>
</tbody>
</table>

**RUBRIQUE 10: Stabilité et réactivité**

- **10.1 Réactivité** Pas d'autres informations importantes disponibles.
- **10.2 Stabilité chimique**
- **Décomposition thermique/conditions à éviter:** Pas de décomposition en cas d'usage conforme.
- **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**
  - Nocif en cas d’ingestion ou de contact cutané.
- **Effet primaire d’irritation:**
  - Corrosion cutanée/irritation cutanée
  - Provoque une irritation cutanée.
- **Lésions oculaires graves/irritation oculaire**
  - Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
Nom du produit: RHODINILE BLUE STAIN SOLUTION

- Sensibilisation respiratoire ou cutanée
  Peut provoquer des symptômes allergiques ou d'asthme ou des difficultés respiratoires par inhalation.
  Peut provoquer une allergie cutanée.
- Effets CMR (cancérigène, mutagène et toxique pour la reproduction)
- Mutagénicité sur les cellules germinales
  Susceptible d’induire des anomalies génétiques.
- Cancérogénicité
  Susceptible de provoquer le cancer.
- 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
  Risque présumé d'effets graves pour les organes à la suite d'expositions répétées ou d'une exposition prolongée.
- 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: En général non polluant
- 12.5 Résultats des évaluations PBT et VPvB
  - PBT: Non applicable.
  - VPvB: Non applicable.
- 12.6 Autres effets néfastes
  Pas d'autres informations importantes disponibles.

RUBRIQUE 13: Considérations relatives à l'élimination

- 13.1 Méthodes de traitement des déchets
  - Recommandation: Ne doit pas être évacué avec les ordures ménagères. Ne pas laisser pénétrer dans les égouts.
- Emballages non nettoyés:
  - Recommandation: Evacuation conformément aux prescriptions légales.

RUBRIQUE 14: Informations relatives au transport

- 14.1 Numéro ONU
  - ADR, ADN, IMDG, IATA: néant
- 14.2 Désignation officielle de transport de l'ONU
  - ADR, ADN, IMDG, IATA: néant
- 14.3 Classe(s) de danger pour le transport
  - ADR, ADN, IMDG, IATA: néant
- Classe: néant
- 14.4 Groupe d'emballage
  - ADR, IMDG, IATA: néant
  (suite page 7)
Nom du produit: RHODINILE BLUE STAIN SOLUTION

- 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.
- "Règlement type" de l'ONU: néant

**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.

- Phrases importantes:
  - H351 Susceptible de provoquer le cancer.

- Acronymes et abréviations:
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - 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
  - Acute Tox. 4: Acute toxicity, Hazard Category 4
  - Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
  - Resp. Sens. 1B: Sensitisation - Respirat., Hazard Category 1B
  - Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B
  - Mut. 2: Germ cell mutagenicity, Hazard Category 2
  - Carc. 2: Carcinogenicity, Hazard Category 2
  - STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemisches und des Unternehmens

1.1 Produktidentifikator

Handelsname: RHODINILE BLUE STAIN SOLUTION

Artikelnummer: 26162-01

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
e-mail: sgkck@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

24h Giftnotruf München: +49 (0)89 19240
Toxikologische Abteilung der II. Medizinischen Klinik
gericht der Isar, München. - www.toxinfo.org

Auskunftgebender Bereich: Product safety department

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

Einstufung gemäß Verordnung (EG) Nr. 1272/2008

GHS08 Gesundheitsgefahr

Resp. Sens. 1B H334 Kann bei Einatmen Allergie, asthamaartige Symptome oder Atembeschwerden verursachen.

Muta. 2 H341 Kann vermutlich genetische Defekte verursachen.
Carc. 2 H351 Kann vermutlich Krebs erzeugen.
STOT RE 2 H373 Kann die Organe schädigen bei längerer oder wiederholter Exposition.

GHS07

Acute Tox. 4 H302 Gesundheitsschädlich bei Verschlucken.
Acute Tox. 4 H312 Gesundheitsschädlich bei Hautkontakt.
Skin Irrit. 2 H315 Verursacht Hautreizungen.
42.0

Skin Sens. 1B  H317  Kann allergische Hautreaktionen verursachen.

- 2.2 Kennzeichnungselemente
- Kennzeichnung gemäß Verordnung (EG) Nr. 1272/2008
  Das Produkt ist gemäß CLP-Verordnung eingestuft und gekennzeichnet.
- Gefahrenpiktogramme

| GHS07 | GHS08 |

- Signalwort  Gefahr
- Gefahrenhinweise
  H302+H312  Gesundheitsschädlich bei Verschlucken oder Hautkontakt.
  H315  Verursacht Hautreizungen.
  H334  Kann bei Einatmen Allergie, asthamaartige Symptome oder Atembeschwerden verursachen.
  H317  Kann allergische Hautreaktionen verursachen.
  H341  Kann vermutlich genetische Defekte verursachen.
  H351  Kann vermutlich Krebs erzeugen.
  H373  Kann die Organe schädigen bei längerer oder wiederholter Exposition.
- Sicherheitshinweise
  P260  Staub/Rauch/Gas/Nebel/Dampf/Aerosol nicht einatmen.
  P280  Schutzhandschuhe/Schutzkleidung/Augenschutz/Gesichtsschutz tragen.
  P321  Besondere Behandlung (siehe auf diesem Kennzeichnungsetikett).
  P405  Unter Verschluss aufbewahren.
  P501  Entsorgung des Inhalts / des Behälters gemäß den örtlichen / regionalen / nationalen/ internationalen
        Vorschriften.

- 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:
  RHODANINE BLUE  
  ≤ 2,5%
- Zusätzliche Hinweise: Der Wortlaut der angeführten Gefahrenhinweise ist dem Abschnitt 16 zu entnehmen.

ABSCHNITT 4: Erste-Hilfe-Maßnahmen

- 4.1 Beschreibung der Erste-Hilfe-Maßnahmen
- Allgemeine Hinweise: Vergiftungssymptome können erst nach vielen Stunden auftreten, deshalb ärztliche Überwachung mindestens 48 Stunden nach einem Unfall.
- Nach Einatmen:
  Reichlich Frischluftzufuhr und sicherheitshalber Arzt aufsuchen.
  Bei Bewußtlosigkeit Lagerung und Transport in stabiler Seitenlage.
- Nach Hautkontakt:  Sofort mit Wasser und Seife abwaschen und gut nachspülen.
Handelsname: RHODINILE BLUE STAIN SOLUTION

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.

ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

5.1 Löschmittel
Geeignete Löschmittel:

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.

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.
Kontaminiertes Material als Abfall nach Abschnitt 13 entsorgen.
Für ausreichende Lüftung sorgen.

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.

ABSCHNITT 7: Handhabung und Lagerung

7.1 Schutzmaßnahmen zur sicheren Handhabung
Für gute Belüftung/Absaugung am Arbeitsplatz sorgen.
Aerosolbildung vermeiden.

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: Behälter dicht geschlossen halten.

Lagerklasse:
Klassifizierung nach Betriebssicherheitsverordnung (BetrSichV): -
Handelsname: RHODINILE BLUE STAIN SOLUTION

7.3 Spezifische Endanwendungen
Keine weiteren relevanten Informationen verfügbar.

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:
Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten.
Beschmutzte, getränkte Kleidung sofort ausziehen.
Vor den Pausen und bei Arbeitsende Hände waschen.
Berührung mit den Augen und der Haut vermeiden.

· Atemschutz:
Bei kurzzeitiger oder geringer Belastung Atemfiltergerät; bei intensiver bzw. längerer Exposition umluftunabhängiges Atemschutzgerät verwenden.

· Handschutz:

SCHUTZHANDSCHUHE

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 Handschuhmaterialien nicht vorausberechenbar und muß deshalb vor dem Einsatz überprüft werden.

· Durchdringungszeit des Handschuhmaterials
Die genaue Durchbruchzeit ist beim Schutzhandschuhhersteller zu erfahren und einzuhalten.

· Augenschutz:

DICHTSCHLIEßENDE SCHUTZBRILLE
### ABSCHNITT 9: Physikalische und chemische Eigenschaften

<table>
<thead>
<tr>
<th>9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Allgemeine Angaben</strong></td>
</tr>
<tr>
<td>Aussehen: Flüssigkeit</td>
</tr>
<tr>
<td>Form: Dunkelrot</td>
</tr>
<tr>
<td>Farbe: Charakteristisch</td>
</tr>
<tr>
<td>Geruchsschwelle: Nicht bestimmt.</td>
</tr>
<tr>
<td>pH-Wert: Nicht bestimmt.</td>
</tr>
<tr>
<td>Zustandsänderung</td>
</tr>
<tr>
<td>Schmelzpunkt/Schmelzbereich: Nicht bestimmt.</td>
</tr>
<tr>
<td>Siedepunkt/Siedebereich: 100 °C</td>
</tr>
<tr>
<td>Flamm/punkt: Nicht anwendbar.</td>
</tr>
<tr>
<td>Entzündlichkeit (fest, gasförmig): Nicht anwendbar.</td>
</tr>
<tr>
<td>Zündtemperatur:</td>
</tr>
<tr>
<td>Zersetzungstemperatur: Nicht bestimmt.</td>
</tr>
<tr>
<td>Selbstentzündlichkeit: Das Produkt ist nicht selbstentzündlich.</td>
</tr>
<tr>
<td>Explosionsgefahren: Das Produkt ist nicht explosionsgefährlich.</td>
</tr>
<tr>
<td>Explosionsgrenzen:</td>
</tr>
<tr>
<td>Untere: Nicht bestimmt.</td>
</tr>
<tr>
<td>Obere: Nicht bestimmt.</td>
</tr>
<tr>
<td>Dampfdruck: Nicht bestimmt.</td>
</tr>
<tr>
<td>Dichte bei 20 °C: 1.01094 g/cm³</td>
</tr>
<tr>
<td>Relative Dichte: Nicht bestimmt.</td>
</tr>
<tr>
<td>Dampfdichte: Nicht bestimmt.</td>
</tr>
<tr>
<td>Verdampfungsgeschwindigkeit: Nicht bestimmt.</td>
</tr>
<tr>
<td>Löslichkeit in / Mischbarkeit mit Wasser: Nicht bzw. wenig mischbar.</td>
</tr>
<tr>
<td>Verteilungskoeffizient (n-Octanol/Wasser): Nicht bestimmt.</td>
</tr>
<tr>
<td>Viskosität:</td>
</tr>
<tr>
<td>Dynamisch: Nicht bestimmt.</td>
</tr>
<tr>
<td>Kinematisch: Nicht bestimmt.</td>
</tr>
<tr>
<td>Lösungsmittelgehalt:</td>
</tr>
<tr>
<td>Organische Lösungsmittel: 0.0 %</td>
</tr>
<tr>
<td>Wasser: 98.5 %</td>
</tr>
<tr>
<td>VOC (EU): 0.00 %</td>
</tr>
<tr>
<td>Festkörpergehalt: 1.5 %</td>
</tr>
<tr>
<td>9.2 Sonstige Angaben Keine weiteren relevanten Informationen verfügbar.</td>
</tr>
</tbody>
</table>

### ABSCHNITT 10: Stabilität und Reaktivität

| 10.1 Reaktivität Keine weiteren relevanten Informationen verfügbar. |
Handelsname: RHODINILE BLUE STAIN SOLUTION

- 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
    Gesundheitsschädlich bei Verschlucken oder Hautkontakt.
  - Primäre Reizwirkung:
    - Ätz-/Reizwirkung auf die Haut
      Verursacht Hautreizungen.
    - Schwere Augenschädigung/-reizung
      Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
  - Sensibilisierung der Atemwege/Haut
    Kann bei Einatmen Allergie, asthmatische Symptome oder Atembeschwerden verursachen.
    Kann allergische Hautreaktionen verursachen.
  - CMR-Wirkungen (krebsverursagende, erbgutverändernde und fortpflanzungsgefährdende Wirkung)
    - Keimzell-Mutationstauglichkeit
      Kann vermutlich genetische Defekte verursachen.
    - Karzinogenität
      Kann vermutlich Krebs erzeugen.
    - 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
    Kann die Organe schädigen bei längerer oder wiederholter Exposition.
  - Aspirationsgefahr
    Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

ABSCHNITT 12: Umweltbezogene Angaben

- 12.1 Toxizität
- Aquatische Toxizität: Keine weiteren relevanten Informationen verfügbar.
- 12.2 Persistenz und Abbaubarkeit:
  Keine weiteren relevanten Informationen verfügbar.
- 12.3 Bioakkumulationspotenzial
  Keine weiteren relevanten Informationen verfügbar.
- 12.4 Mobilität im Boden
  Keine weiteren relevanten Informationen verfügbar.
- Weitere ökologische Hinweise:
  - Allgemeine Hinweise: Im allgemeinen nicht wassergefährdend
  - 12.5 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
**Handelsname:** RHODINILE BLUE STAIN SOLUTION

· Ungereinigte Verpackungen:
  · Empfehlung: Entsorgung gemäß den behördlichen Vorschriften.

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**ABSCHNITT 14: Angaben zum Transport**

- 14.1 UN-Nummer
  · ADR, ADN, IMDG, IATA entfällt

- 14.2 Ordnungsgemäße UN-Versandbezeichnung
  · ADR, ADN, IMDG, IATA entfällt

- 14.3 Transportgefahrenklassen
  · ADR, ADN, IMDG, IATA entfällt

- 14.4 Verpackungsgruppe
  · ADR, IMDG, IATA entfällt

- 14.5 Umweltgefahren:
  · Nicht anwendbar.

- 14.6 Besondere Vorsichtsmaßnahmen für den Verwender
  · Nicht anwendbar.

- 14.7 Massengutbeförderung gemäß Anhang II des MARPOL-Übereinkommens und gemäß IBC-Code
  · Nicht anwendbar.

- UN "Model Regulation":
  · entfällt

---

**ABSCHNITT 15: Rechtsvorschriften**

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

- Nationale Vorschriften:

- Wassergefährdungsklasse: Im allgemeinen nicht wassergefährdend.

- 15.2 Stoffsicherheitsbeurteilung: Eine Stoffsicherheitsbeurteilung wurde nicht durchgeführt.

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**ABSCHNITT 16: Sonstige Angaben**

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

- Relevante Sätze
  H351 Kann vermutlich Krebs erzeugen.

- Abkürzungen und Akronymen:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  IATA: International Air Transport Association
  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
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Resp. Sens. 1B: Sensitisation - Respirat., Hazard Category 1B
Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B
Muta. 2: Germ cell mutagenicity, Hazard Category 2
Carc. 2: Carcinogenicity, Hazard Category 2
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
SEZIONE 1: Identificazione della sostanza o della miscela e della società/impresa

1.1 Identificatore del prodotto

Denominazione commerciale: RHODINILE BLUE STAIN SOLUTION

Articolo numero: 26162-01

1.2 Usi identificati pertinenti della sostanza o della miscela e usi sconsigliati

Non sono disponibili altre informazioni.

Utilizzazione della Sostanza / del Preparato
Prodotti chimici per laboratorio

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
e-mail: sgkkc@aol.com
www.emsdiasum.com

Societa Italiana Chimici
Via Rio Nell Elba 140
00138 Rome, Italy
Tel: 39 06 8800211
Fax: 39 30 06 8815313
Web: www.sichim.com

Informazioni fornite da: Product safety department

1.4 Numero telefonico di emergenza:

ChemTrec 1-800-424-9300 Contract CCN7661
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

GHS08 pericolo per la salute

Resp. Sens. 1B H334 Può provocare sintomi allergici o asmatici o difficoltà respiratorie se inalato.
Muta. 2 H341 Sospettato di provocare alterazioni genetiche.
Carc. 2 H351 Sospettato di provocare il cancro.
STOT RE 2 H373 Può provocare danni agli organi in caso di esposizione prolungata o ripetuta.

GHS07

Acute Tox. 4 H302 Nocivo se ingerito.
Acute Tox. 4 H312 Nocivo per contatto con la pelle.
Skin Irrit. 2 H315 Provoca irritazione cutanea.
Skin Sens. 1B H317 Può provocare una reazione allergica cutanea.

2.2 Elementi dell’etichetta

Etichettatura secondo il regolamento (CE) n. 1272/2008

Il prodotto è classificato ed etichettato conformemente al regolamento CLP.
SEZIONE 3: Composizione/informazioni sugli ingredienti

3.2 Caratteristiche chimiche: Miscele

Descrizione: Miscela delle seguenti sostanze con additivi non pericolosi.

Sostanze pericolose:
RHODANINE BLUE  
\( \text{Carc. 2, H351 } \leq 2,5\% \)

Ulteriori indicazioni: Il testo dell’avvertenza dei pericoli citati può essere appreso dal capitolo 16.

SEZIONE 4: Misure di primo soccorso

4.1 Descrizione delle misure di primo soccorso

Indicazioni generali:
I sintomi di avvelenamento possono comparire dopo molte ore, per tale motivo è necessaria la sorveglianza di un medico nelle 48 ore successive all’incidente.

Inalazione:
Portare il soggetto in zona molto ben areata e per sicurezza consultare un medico.
Se il soggetto è svenuto provvedere a tenerlo durante il trasporto in posizione stabile su un fianco.

Contatto con la pelle:
Lavare immediatamente con acqua e sapone sciacquando accuratamente.

Contatto con gli occhi:
Lavare con acqua corrente per diversi minuti tenendo le palpebre ben aperte Se persiste il dolore consultare il medico.

Ingestione:
Chiamare subito il medico.

4.2 Principali sintomi ed effetti, sia acuti che ritardati: Non sono disponibili altre informazioni.
SEZIONE 5: Misure antincendio

5.1 Mezzi di estinzione
Mezzi di estinzione idonei: CO2, polvere o acqua nebulizzata. Estinguere gli incendi di grosse dimensioni con acqua nebulizzata o con schiuma resistente all'alcool.

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). Smaltimento del materiale contaminato conformemente al punto 13. Provvedere ad una sufficiente areazione.

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
Accurata ventilazione/aspirazione nei luoghi di lavoro.
Evitare la formazione di aerosol.

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: Mantenere i recipienti ermeticamente chiusi.

7.3 Usi finali particolari Non sono disponibili altre informazioni.

SEZIONE 8: Controllo dell'esposizione/protezione individuale

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.

Ulteriori indicazioni: Le liste valide alla data di compilazione sono state usate come base.
Denominazione commerciale: RHODINILE BLUE STAIN SOLUTION

8.2 Controlli dell'esposizione
- Mezzi protettivi individuali:
- Norme generali protettive e di igiene del lavoro:
  - Tenere lontano da cibo, bevande e foraggi.
  - Togliere immediatamente gli abiti contaminati.
  - Lavarsi le mani prima dell'intervallo o a lavoro terminato.
  - Evitare il contatto con gli occhi e la pelle.
- Maschera protettiva:
  - Nelle esposizioni brevi e minime utilizzare la maschera; nelle esposizioni più intense e durature indossare l'autorespiratore.
- Guanti protettivi:
  - Guanti protettivi

Il materiale dei guanti deve essere impermeabile e stabile contro il prodotto/la sostanza/la formulazione. A causa della mancanza di tests 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:
  - Occhiali protettivi a tenuta

SEZIONE 9: Proprietà fisiche e chimiche
- 9.1 Informazioni sulle proprietà fisiche e chimiche fondamentali
  - Indicazioni generali
  - Aspetto:
    - Forma: Liquido
    - Colore: Rosso scuro
  - Odore:
    - Caratteristico
  - Soglia olfattiva:
    - Non definito.
  - valori di pH:
    - Non definito.
- Cambiamento di stato
  - Temperatura di fusione/ambito di fusione: Non definito.
  - Temperatura di ebollizione/ambito di ebollizione: 100 °C
- Punto di infiammabilità: Non applicabile.
- Infiammabilità (solido, gassoso): Non applicabile.
<table>
<thead>
<tr>
<th><strong>Denominazione commerciale:</strong> RHODINILE BLUE STAIN SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>· Temperatura di accensione:</strong> Non definito.</td>
</tr>
<tr>
<td><strong>· Temperatura di decomposizione:</strong> Non definito.</td>
</tr>
<tr>
<td><strong>· Autoaccensione:</strong> Prodotto non autoinflammabile.</td>
</tr>
<tr>
<td><strong>· Pericolo di esplosione:</strong> Prodotto non esplosivo.</td>
</tr>
<tr>
<td><strong>· Limiti di infiammabilità:</strong></td>
</tr>
<tr>
<td><strong>Inferiore:</strong> Non definito.</td>
</tr>
<tr>
<td><strong>Superiore:</strong> Non definito.</td>
</tr>
<tr>
<td><strong>· Tensione di vapore:</strong> Non definito.</td>
</tr>
<tr>
<td><strong>· Densità a 20 °C:</strong> 1.01094 g/cm³</td>
</tr>
<tr>
<td><strong>· Densità relativa:</strong> Non definito.</td>
</tr>
<tr>
<td><strong>· Densità del vapore:</strong> Non definito.</td>
</tr>
<tr>
<td><strong>· Velocità di evaporazione:</strong> Non definito.</td>
</tr>
<tr>
<td><strong>· Solubilità in/Miscibilità con acqua:</strong> Poco e/o non miscibile.</td>
</tr>
<tr>
<td><strong>· Coefficiente di distribuzione (n-Octanol/acqua):</strong> Non definito.</td>
</tr>
<tr>
<td><strong>· Viscosità:</strong></td>
</tr>
<tr>
<td><strong>Dinamica:</strong> Non definito.</td>
</tr>
<tr>
<td><strong>Cinematica:</strong> Non definito.</td>
</tr>
<tr>
<td><strong>· Tenore del solvente:</strong></td>
</tr>
<tr>
<td><strong>Solventi organici:</strong> 0.0 %</td>
</tr>
<tr>
<td><strong>Acqua:</strong> 98.5 %</td>
</tr>
<tr>
<td><strong>VOC (CE)</strong> 0.00 %</td>
</tr>
<tr>
<td><strong>· Contenuto solido:</strong> 1.5 %</td>
</tr>
<tr>
<td><strong>· 9.2 Altre informazioni:</strong> Non sono disponibili altre informazioni.</td>
</tr>
</tbody>
</table>

**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**
  Noctivo se ingerito o a contatto con la pelle.
- **Irritabilità primaria:**
  Corrosione/irritazione cutanea
  Provoca irritazione cutanea.
- **Lesioni oculari gravi/irritazioni oculari gravi**
  Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.

(continua a pagina 6)
Denominazione commerciale: RHODINILE BLUE STAIN SOLUTION

· Sensibilizzazione respiratoria o cutanea
  Può provocare sintomi allergici o asmatici o difficoltà respiratorie se inalato.
  Può provocare una reazione allergica cutanea.
· Effetti CMR (cancerogenicità, mutagenicità e tossicità per la riproduzione)
  · Mutagenicità delle cellule germinali
    Sospettato di provocare alterazioni genetiche.
  · Cancerogenicità
    Sospettato di provare il cancro.
· 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
    Può provocare danni agli organi in caso di esposizione prolungata o ripetuta.
· Pericolo in caso di aspirazione Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.

SEZIONE 12: Informazioni ecologiche

· 12.1 Tossicità
  · Tossicità acquatica: 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.
· 12.4 Mobilità nel suolo Non sono disponibili altre informazioni.
· Ulteriori indicazioni in materia ambientale:
  · Ulteriori indicazioni: Generalmente non pericoloso
· 12.5 Risultati della valutazione PBT e vPvB
  · PBT: Non applicabile.
  · vPvB: Non applicabile.
· 12.6 Altri effetti avversi Non sono disponibili altre informazioni.

SEZIONE 13: Considerazioni sullo smaltimento

· 13.1 Metodi di trattamento dei rifiuti
  · Consigli: Non smaltire il prodotto insieme ai rifiuti domestici Non immettere nelle fognature.
· Imballaggi non puliti:
  · Consigli: Smaltimento in conformità con le disposizioni amministrative.

SEZIONE 14: Informazioni sul trasporto

· 14.1 Numero ONU 
  · ADR, ADN, IMDG, IATA non applicabile
· 14.2 Nome di spedizione dell’ONU 
  · ADR, ADN, IMDG, IATA non applicabile
· 14.3 Classi di pericolo connesso al trasporto 
  · ADR, ADN, IMDG, IATA Classse non applicabile
· 14.4 Gruppo di imballaggio 
  · ADR, IMDG, IATA non applicabile

(continua a pagina 7)
### 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.

### 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.

- **Frasie rilevanti**
  - H351 Sospettato di provocare il cancro.
- **Abbreviazioni e acronimi**:
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - 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
  - Acute Tox. 4: Acute toxicity, Hazard Category 4
  - Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
  - Resp. Sens. 1B: Sensitisation - Respirat., Hazard Category 1B
  - Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B
  - Mut. 2: Germ cell mutagenicity, Hazard Category 2
  - Carc. 2: Carcinogenicity, Hazard Category 2
  - STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
1. 화학제품과 회사에 관한 정보

- 제품 식별자
  - 제품명: RHODINILE BLUE STAIN SOLUTION
  - 상품번호: 26162-01
- 안전지침서에 따라 추가적인 정보가 존재하지 않습니다.

2. 유해성, 위험성

- 순물질 또는 혼합물의 분류
  - 건강에 위험
    - 호흡기과민성: 구분1 H334 흡입시 알레르기성 반응, 천식 또는 호흡곤란을 일으킬 수 있음
    - 생식세포변이능성: 구분2 H341 유전적인 결함을 일으킬 것으로 의심됨
    - 발암성: 구분2 H351 암을 일으킬 것으로 의심됨
    - 표적장기반복노출: 구분2 H373 장기간 또는 반복노출 되면 신체 중에 손상을 일으킬 수 있음
    - 심한 눈 손상/자극성: 구분2 H319 눈에 심한 자극을 일으킴
    - 피부과민성: 구분1 H317 알레르기성 피부 반응을 일으킬 수 있음
  - 라벨표기 요소
    - GHS 라벨 요소
      - 본 제품은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.
  - 그림
    - GHS08

(2) 총계계속)
제품명: RHODINILE BLUE STAIN SOLUTION

3 구성성분의 명칭 및 함유량

- 화학적 특성: 환원물
- 설명: 무해한 첨가물이 함유된 약물에 약물질을 묻어진 혼합물

위험 요소:

| RHODANINE BLUE | 발암성 | 구분 2, H351 | ≤ 2.5% |

4 용구조사 요령

- 용구조사요령 내용
- 일반적 정보:
  중독 중상은 몇 시간이 지난 후에 발생할 수 있다. 따라서 사고가 발생한 후에 적어도 48시간 간격으로 의료진의 관찰을 받기로 한다.
- 흡입했을 때:
  신선한 공기를 보고 나서 반드시 의료진의 도움을 구한다.
- 피부에 접촉했을 때:
  두부물과 비누로 싸서 씻어낸다.

5 독발. 화제시 대처방법

- 소화제
- 적절한 소화제:
  이산 화합소, 진황 응석, 가루 또는 물 방사를 사용하고, 더 큰 화재는 물을 분사하거나 알코올이 함유된 기름으로 끌어낸다.
  본 화학물질이나 혼합물에서 발생하는 특별 유해성 추가적인 정보가 존재하지 않습니다.
6 누출 사고 시 대처방법

- 개인적 예방조치, 보호장비 및 응급처치 절차 필요임.
- 화재 관련 예방조치: 특별한 조치가 필요임.
- 밀폐 및 정화 방법과 소재:
  - 액체가 혼합될 물질 (모래, 규조토, 산성결합 물, 일반 결합 물, 독 밥)에 흡입되도록 한다.
  - 항목 13에 따라 오염된 물질을 쓰레기로 처분한다.
  - 충분한 환기가 되도록 한다.
- 타 섹션 참조
  - 안전 관리에 대한 정보는 제7 장을 참고하시오.
  - 개인 보호 장비에 대한 정보는 제8 장을 참고하시오.
  - 쓰레기 처리에 대한 정보는 제13 장을 참고하시오.

7 취급 및 저장방법

- 취급:
- 안전 취급을 위한 예방조치
  - 작업장에서는 통풍이 잘되고, 습기제거가 잘되게 주의한다.
  - 연무질이 형성되는 것을 피한다.
- 화재 및 폭발사고 예방대책에 관한 정보: 특별한 조치가 필요 없음.
- 통제 및 저장방법 등 안전 저장 조건
- 보관:
  - 안전한 저장 방비: 특별한 요구사항이 없음.
  - 하나의 공통 보관 시설에 대한 보관 관련 정보: 필요 없음.
- 보관 조건에 관한 추가적인 정보: 용기를 새지 않게 밀폐한채 보관한다.
- 구체적 최종 사용자 주의사항: 추가적인 정보가 존재하지 않습니다.

8 노출방지 및 개인보호구

- 첨단시설 디자인에 대한 추가정보: 더 이상의 자료는 없음. 항목 7을 참고하시오.
- 통제 변수
  - 화학물질의 노출기준, 생물학적 노출기준 등:
    - 본 제품에는 작업장에서 감사가 필요한 주요한 가치의 어떤 해당 재료의 양을 함유하고 있지 않다.
    - 주가 정보: 제조 향일 당시에 유효한 목록을 기준으로 사용했다.
- 노출 통제
  - 개인 보호구
    - 일반적 보호조치 및 위생조치:
      - 식료품, 음료수와 사료로부터 멀리 떨어져 놓는다.
      - 더러워지거나 음료수가 묻은 곳은 즉시 탈의한다.
      - 휴식 전이나 작업이 끝날때마다 손을 씻는다.
      - 눈과 피부와의 접촉은 피한다.
    - 호흡기 보호:
      - 단시간 또는 경미한 오염의 경우에는 호흡 장비를 사용한다. 심각한 또는 장 기간 노출시에는
        호흡 보호장비를 사용한다.
제품명: RHODINILE BLUE STAIN SOLUTION

손 보호:

보호용 장갑

장갑재질은 제품/원료/조제물투과시기지약아야하고 내구성이어야한다. 테스트를 하지 않았기 때문에 제품/조제/화학 혼합 물에 적합한 장갑재질에 대한 추천이 없다. 투과 시간, 침투 용과 저하를 고려해서 장 갑 재료를 선택한다.

장갑의재료
적합한장갑의선택은재질차이뿐 아니라품질تشك기에도고려하여이루어져야하고제조업종에따라서도 다르게선정되어야한다.

장갑 재료의 투과시간 정확한관통시간은보호장갑재료에의하여지므로, 준수되어야 한다.

눈보호:

확 사람들이보안경

9 물리화학적 특성

기본 물리 및 화학적 특성에 대한 정보

방치

화학적 특성에 대한 정보


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<th>화학적 특성</th>
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<td>증기압</td>
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제품명: RHODINILE BLUE STAIN SOLUTION

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<th>속성</th>
<th>정보</th>
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<td>알맞지 않습니다.</td>
</tr>
<tr>
<td>증해도</td>
<td>각각의 경우에 따라서는 거의 혼합할 수 없는</td>
</tr>
<tr>
<td>옥탄올/물 분배계수</td>
<td>알맞지 않습니다.</td>
</tr>
<tr>
<td>점도</td>
<td>알맞지 않습니다.</td>
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<tr>
<td>물물</td>
<td>98.5 %</td>
</tr>
<tr>
<td>VOC (EU)</td>
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</tr>
<tr>
<td>고체 함량</td>
<td>1.5 %</td>
</tr>
<tr>
<td>기타 정보</td>
<td>추가적인 정보가 존재하지 않습니다.</td>
</tr>
</tbody>
</table>

10 안정성 및 반응성

• 반응성 추가적인 정보가 존재하지 않습니다.
• 화학적 안정성
• 화학적 안정성 및 유해 반응의 가능성 / 피해야 할 조건: 규정에 따라 사용할 경우 해체는 없다.
• 유해반응 가능성 위험한 반응으로는 알려지지 않았다.
• 피해야 할 조건: 추가적인 정보가 존재하지 않습니다.
• 혼합 금지 물질: 추가적인 정보가 존재하지 않습니다.
• 유해분해물질: 위험성있는 분해물들은 알려지지 않았다.

11 독성에 관한 정보

• 독성학적 영향에 대한 정보
• 급성 독성:
• 일차적 자극 효과:
• 피부 부식성 또는 자극성: 피부와 점막을 자극한다.
• 심한 눈 손상 또는 자극성: 자극
• 감각화:
• 호흡을 통한 감각화가능성이 있다.
• 피부접촉을 통해 감각화가능성이 있다.
• 추가적인 독성에 관한 정보:
• 이 제품은 유럽 공동체의 공동분류표와의 적합성 점수에 근거하여 최근에 발효된 예전 버전의 분류표에 따라 위험물로 분류되어 있다.
• 건강에 해로운 자극성
• 다음과 동일 또는 유사한 결과에 대한 정보
• CMR-효과 (암 유발, 돌연변이성 그리고 생식 독성)
• 생식세포 변이원성: 구분 2, 발암성: 구분 2

12 환경에 미치는 영향

• 독성
• 수생독성: 추가적인 정보가 존재하지 않습니다.
• 지속성 및 분해성 추가적인 정보가 존재하지 않습니다.
제품명: RHODINILE BLUE STAIN SOLUTION

- 한국 시스템에서의 행 동:
- 생물농축 잠재성 추가적인 정보가 존재하지 않습니다.
- 토양에 이동성 추가적인 정보가 존재하지 않습니다.
- 추가적인 생태학 정보:
  - 일반 특성: 일반적으로 수질오염이되지 않는다
  - PBT(잔류성, 생물농축성, 독성 물질) 및 vPvB(고 잔류성, 고 생물농축성 물질) 평가 결과
    - 폐기물 처리 방법:
      - 권고: 생활쓰레기와 함께 처리되어서는 안된다. 하수도망으로 유입되어서는 안된다.
  - vPvB(고 잔류성, 고 생물농축성 물질): 해당사항 없음.
  - 기타 부작용 추가적인 정보가 존재하지 않습니다.

13 폐기시 주의사항

- 폐기물 처리 방법:
  - 권고: 생활쓰레기와 함께 처리되어서는 안된다. 하수도망으로 유입되어서는 안된다.
  - 비위생적 포장:
    - 권고: 당국의 지침에 입각한 쓰레기 처리.

14 운송에 필요한 정보

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<td>· UN &quot;보병 규제&quot;:</td>
<td>늑속된다</td>
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15 법적 규제현황

- 대한 순물질 또는 혼합물에 대한 안전, 보건 및 환경 규제/법률
  - Korean Existing Chemical Inventory
    - 7647-14-5 sodium chloride KE-31387
    - 7732-18-5 water, distilled, conductivity or of similar purity KE-35400
  - GHS 라벨 요소
    - 본 제품은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.
제품명: RHODINILE BLUE STAIN SOLUTION

- 그림문자
  ! [GHS08]

- 신호어 위험
- 유해 위험 문구
  눈에 심한 자극을 일으킴
  흡입시 알레르기성 반응을 일으킬 수 있음
  유전적인 결함을 일으킬 것으로 의심됨
  장기간 또는 반복노출되면 신체 중에 손상을 일으킬 수 있음
- 예방조치 문구
  (분진·의스·스프레이·증기·스프레이)를 흡입하지 마시오.
  눈에 묻으면 몇 분간 물로 조심해서 씻으시오. 가능하면 콘택트렌즈를 제거하시고 계속 씻으시오.
  잠금장치가 있는 저장장소에 저장하시오.
  현지/지역/국가/국제 규정에 따라서 내용물을 용기 노출
- 화학물질 안전성 평가: 화학물질 안전성 평가가 수행되지 않았음

16 그 밖의 참고사항
이보고는 우리지식에대한오늘날의상태에대하여평가하고있다. 하지만이보고서는생산특성에관한보증을

- 최초 작성일자: 2016.06.16
- 개정 횟수 및 최종 개정일자: 1 / 2016.06.16
- 약어와 두문자어:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  IATA: International Air Transport Association
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  VOC: Volatile Organic Compounds (USA, EU)
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
  심한 눈 손상/자극성 구분2: Serious eye damage/eye irritation, Hazard Category 2
  호흡기과민성 구분1: Sensitisation - Respirat., Hazard Category 1
  피부과민성 구분1: Sensitisation - Skin, Hazard Category 1
  생식세포 변이원성 구분2: Germ cell mutagenicity, Hazard Category 2
  발암성 구분2: Carcinogenicity, Hazard Category 2
  표적장기·반복노출 구분2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

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

1.1 Identificador del producto

1.2 Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados

1.3 Datos del proveedor de la ficha de datos de seguridad

SECCIÓN 2: Identificación de los peligros

2.1 Clasificación de la sustancia o de la mezcla

2.2 Elementos de la etiqueta

El producto se ha clasificado y etiquetado de conformidad con el reglamento CLP.
Nombre comercial: RHODINILE BLUE STAIN SOLUTION

· Pictogramas de peligro

GHS07  GHS08

· Palabra de advertencia Peligro

· Indicaciones de peligro
  H302+H312 Nocivo en caso de ingestión o en contacto con la piel.
  H315  Provoca irritación cutánea.
  H334  Puede provocar síntomas de alergia o asma o dificultades respiratorias en caso de inhalación.
  H317  Puede provocar una reacción alérgica en la piel.
  H341  Se sospecha que provoca defectos genéticos.
  H351  Se sospecha que provoca cáncer.
  H373  Puede provocar daños en los órganos tras exposiciones prolongadas o repetidas.

· Consejos de prudencia
  P260 No respirar el polvo/el humo/el gas/la niebla/los vapores/el aerosol.
  P284 [En caso de ventilación insuficiente] Llevar equipo de protección respiratoria.
  P280 Llevar guantes/prendas/gafas/máscara de protección.
  P321 Se necesita un tratamiento específico (ver en esta etiqueta).
  P405 Guardar bajo llave.
  P501 Eliminar el contenido o el recipiente conforme a la reglamentación local/regional/nacional/internacional.

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:
  RHODANINE BLUE

  · Indicaciones adicionales: El texto de los posibles riesgos aquí indicados se puede consultar en el capítulo 16.

SECCIÓN 4: Primeros auxilios

· 4.1 Descripción de los primeros auxilios
  · Instrucciones generales:
    Los síntomas de intoxicación pueden presentarse después de muchas horas, por lo que se requiere una supervisión médica durante un mínimo de 48 horas después del accidente.
  · En caso de inhalación del producto:
    Suministrar suficiente aire fresco y, para mayor seguridad, consultar el médico.
    Las personas desmayadas deben tenderse y transportarse de lado con la suficiente estabilidad.
  · En caso de contacto con la piel:
    Lavar inmediatamente con agua y jabón y enjuagar bien.
  · En caso de con los ojos:
    Limpiar los ojos abiertos durante varios minutos con agua corriente. En caso de trastornos persistentes consultar un médico.
  · En caso de ingestión:
    Consultar inmediatamente un médico.
  · 4.2 Principales síntomas y efectos, agudos y retardados No existen más datos relevantes disponibles.

( se continúa en página 3 )
SECCIÓN 5: Medidas de lucha contra incendios

- 5.1 Medios de extinción
- Sustancias extintoras apropiadas:
  CO2, polvo extintor o chorro de agua rociada. Combatir incendios mayores con chorro de agua rociada o espuma resistente al alcohol.
- 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).
  Desechar el material contaminado como vertido según ítem 13.
  Asegurar suficiente ventilación.
- 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 desechar el producto, ver capítulo 13.

SECCIÓN 7: Manipulación y almacenamiento

- 7.1 Precauciones para una manipulación segura
  Asegurar suficiente ventilación/aspiración en el puesto de trabajo.
  Evitar la formación de aerosoles.
  - Prevención de incendios y explosiones: No se requieren medidas especiales.
- 7.2 Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades
- Almacenamiento:
  - Exigencias con respecto al almacén 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:
    Mantener el recipiente cerrado herméticamente.
- 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.
- 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:
       Mantener alejado de alimentos, bebidas y alimentos para animales.
       Quitarse de inmediato la ropa ensuciada o impregnada.
       Lavarse las manos antes de las pausas y al final del trabajo.
       Evitar el contacto con los ojos y la piel.
     · Protección respiratoria:
       Si la exposición va a ser breve o de poca intensidad, colocarse una máscara respiratoria. Para una exposición más intensa o de mayor duración, usar un aparato de respiración autónomo.
     · Protección de manos:
       
       Guantes de protección

       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:
       
       Gafas de protección herméticas

SECCIÓN 9: Propiedades físicas y químicas

· 9.1 Información sobre propiedades físicas y químicas básicas
   · Datos generales
     · Aspecto:
       Forma: Líquido
       Color: Rojo oscuro
     · Olor: Característico
     · Umbral olfativo: No determinado.
     · valor pH: No determinado.
   · Cambio de estado
     · Punto de fusión /campo de fusión: Indeterminado.
     · Punto de ebullición /campo de ebullición: 100 °C
   · Punto de inflamación: No aplicable.
   · Inflamabilidad (sólido, gaseiforme): No aplicable.
**Nombre comercial:** RHODINILE BLUE STAIN SOLUTION

| · Temperatura de ignición: |  
| · Temperatura de descomposición: | No determinado.  
| · Autoinflamabilidad: | El producto no es autoinflamable.  
| · Peligro de explosión: | El producto no es explosivo.  
| · Límites de explosión: |  
| Inferior: | No determinado.  
| Superior: | No determinado.  
| · Presión de vapor: | No determinado.  
| · Densidad a 20 °C: | 1.01094 g/cm³  
| · Densidad relativa | No determinado.  
| · Densidad de vapor | No determinado.  
| · Velocidad de evaporación | No determinado.  
| · Solubilidad en / miscibilidad con agua: | Poco o no mezclable.  
| · Coeficiente de reparto (n-octanol/agua): | No determinado.  
| · Viscosidad: |  
| Dinámica: | No determinado.  
| Cinemática: | No determinado.  
| · Concentración del disolvente: |  
| Disolventes orgánicos: | 0.0 %  
| Agua: | 98.5 %  
| VOC (CE): | 0.00 %  
| · Contenido de cuerpos sólidos: | 1.5 %  
| · 9.2 Otros datos | No existen más datos relevantes disponibles.  

**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:  
· Nocivo en caso de ingestión o en contacto con la piel.  
· Efecto estimulante primario:  
· Corrosión o irritación cutáneas: Provee irritación cutánea.  
· Lesiones o irritación ocular graves: A la vista de los datos disponibles, no se cumplen los criterios de clasificación.  

( se continúa en página 6 )
Nombre comercial: RHODINILE BLUE STAIN SOLUTION

- Sensibilización respiratoria o cutánea
  Puede provocar síntomas de alergia o asma o dificultades respiratorias en caso de inhalación.
  Puede provocar una reacción alérgica en la piel.
- Efectos CMR (carcinogenicidad, mutagenicidad y toxicidad para la reproducción)
- Mutagenicidad en células germinales
  Se sospecha que provoca defectos genéticos.
- Carcinogenicidad
  Se sospecha que provoca cáncer.
- 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
  Puede provocar daños en los órganos tras exposiciones prolongadas o repetidas.
- 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.
- Indicaciones medioambientales adicionales:
  - Indicaciones generales: Por regla general, no es peligroso 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: No debe desecharse con la basura doméstica. No debe llegar al alcantarillado.
- Embalajes sin limpiar:
  - Recomendación: Eliminar conforme a las disposiciones oficiales.

SECCIÓN 14: Información relativa al transporte

- 14.1 Número ONU
  - ADR, ADN, IMDG, IATA
  - suprimido
- 14.2 Designación oficial de transporte de las Naciones Unidas
  - ADR, ADN, IMDG, IATA
  - suprimido
- 14.3 Clase(s) de peligro para el transporte
  - ADR, ADN, IMDG, IATA
  - Clase
  - suprimido
- 14.4 Grupo de embalaje
  - ADR, IMDG, IATA
  - suprimido

( se continua en página 7 )
Ficha de datos de seguridad
según 1907/2006/CE, Artículo 31

Fecha de impresión: 16.06.2016
Revisión: 16.06.2016

Nombre comercial: RHODINILE BLUE STAIN SOLUTION

| · 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. |
| · "Reglamentación Modelo" de la UNECE: | suprimido |

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 nominadas - 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 contratual.

· Frases relevantes
  H351 Se sospecha que provoca cáncer.
· Abreviaturas y acrónimos:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  IATA: International Air Transport Association
  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
  Acute Tox. 4: Acute toxicity, Hazard Category 4
  Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
  Resp. Sens. 1B: Sensitisation - Respirat., Hazard Category 1B
  Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B
  Mut. 2: Germ cell mutagenicity, Hazard Category 2
  Carc. 2: Carcinogenicity, Hazard Category 2
  STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2