## 1 Identification

- **Product identifier**
  - **Trade name:** EMS CONDUCTIVE GOLD-PASTE
  - **Article number:** 12642
  - **Application of the substance / the mixture** Laboratory chemicals

- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:** Electron Microscopy Sciences
  - **Address:** 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**
  - **GHS02 Flame**
  - Flammable Liquids 2 **H225** Highly flammable liquid and vapor.
  - **GHS08 Health hazard**
  - Toxic to Reproduction 2 **H361** Suspected of damaging fertility or the unborn child.
  - Specific Target Organ Toxicity - Repeated Exposure 2 **H373** May cause damage to organs through prolonged or repeated exposure.

- **GHS07**
  - Skin Irritation 2 **H315** Causes skin irritation.
  - Sensitization - Skin 1 **H317** May cause an allergic skin reaction.

- **Label elements**
  - **GHS label elements:** The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms**
  - GHS02  GHS07  GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**
  - toluene
  - (R)-p-mentha-1,8-diene

(Contd. on page 2)
### Trade name: EMS CONDUCTIVE GOLD-PASTE

#### Hazard statements
- Highly flammable liquid and vapor.
- Causes skin irritation.
- May cause an allergic skin reaction.
- Suspected of damaging fertility or the unborn child.
- May cause damage to organs through prolonged or repeated exposure.

#### Precautionary statements
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wash thoroughly after handling.
- Contaminated work clothing must not be allowed out of the workplace.
- Wear protective gloves / protective clothing.
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF exposed or concerned: Get medical advice/attention.
- Specific treatment (see on this label).
- Get medical advice/attention if you feel unwell.
- Take off contaminated clothing and wash it before reuse.
- If skin irritation or rash occurs: Get medical advice/attention.
- Wash contaminated clothing before reuse.
- In case of fire: Use CO2, powder or water spray to extinguish.
- Store in a well-ventilated place. Keep cool.
- 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 = 3
  - Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**
  - Health = 2
  - Fire = 3
  - Reactivity = 0

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

#### Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description**: Mixture of the substances listed below with nonhazardous additions.
Trade name: EMS CONDUCTIVE GOLD-PASTE

### 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 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.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
  - Most important symptoms and effects, both acute and delayed: No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed: No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **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**
  Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:**
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.
  Do not flush with water or aqueous cleansing agents
- **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.
Trade name: EMS CONDUCTIVE GOLD-PASTE

### Protective Action Criteria for Chemicals

<table>
<thead>
<tr>
<th>PAC-1:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-57-5 Gold</td>
<td>0.46 mg/m³</td>
<td></td>
</tr>
<tr>
<td>108-88-3 toluene</td>
<td>67 ppm</td>
<td></td>
</tr>
<tr>
<td>64-17-5 Ethyl alcohol</td>
<td>1,800 ppm</td>
<td></td>
</tr>
<tr>
<td>141-78-6 ethyl acetate</td>
<td>1,200 ppm</td>
<td></td>
</tr>
<tr>
<td>67-63-0 propan-2-ol</td>
<td>400 ppm</td>
<td></td>
</tr>
<tr>
<td>5989-27-5 (R)-p-mentha-1,8-diene</td>
<td>15 ppm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-2:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-57-5 Gold</td>
<td>5.1 mg/m³</td>
<td></td>
</tr>
<tr>
<td>108-88-3 toluene</td>
<td>560 ppm</td>
<td></td>
</tr>
<tr>
<td>64-17-5 Ethyl alcohol</td>
<td>3300* ppm</td>
<td></td>
</tr>
<tr>
<td>141-78-6 ethyl acetate</td>
<td>1,700 ppm</td>
<td></td>
</tr>
<tr>
<td>67-63-0 propan-2-ol</td>
<td>2000* ppm</td>
<td></td>
</tr>
<tr>
<td>5989-27-5 (R)-p-mentha-1,8-diene</td>
<td>67 ppm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-3:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-57-5 Gold</td>
<td>30 mg/m³</td>
<td></td>
</tr>
<tr>
<td>108-88-3 toluene</td>
<td>3700* ppm</td>
<td></td>
</tr>
<tr>
<td>64-17-5 Ethyl alcohol</td>
<td>15000* ppm</td>
<td></td>
</tr>
<tr>
<td>141-78-6 ethyl acetate</td>
<td>10000** ppm</td>
<td></td>
</tr>
<tr>
<td>67-63-0 propan-2-ol</td>
<td>12000** ppm</td>
<td></td>
</tr>
<tr>
<td>5989-27-5 (R)-p-mentha-1,8-diene</td>
<td>170 ppm</td>
<td></td>
</tr>
</tbody>
</table>

### 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:
    - Keep ignition sources away - Do not smoke.
    - Protect from heat.
    - Protect against electrostatic charges.
  - Conditions for safe storage, including any incompatibilities:
  - Storage:
    - Requirements to be met by storerooms and receptacles: Store in a cool location.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions:
    - Keep receptacle tightly sealed.
    - Store in cool, dry conditions in well sealed receptacles.
    - Protect from heat and direct sunlight.
  - Specific end use(s): No further relevant information available.

### Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see item 7.
## Control parameters

**Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

<table>
<thead>
<tr>
<th>Component</th>
<th>PEL Long-term value:</th>
<th>Ceiling limit value:</th>
<th>REL Short-term value:</th>
<th>REL Long-term value:</th>
<th>TLV Short-term value:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>108-88-3 toluene</strong></td>
<td>200 ppm</td>
<td>300; 500* ppm</td>
<td>560 mg/m³, 150 ppm</td>
<td>375 mg/m³, 100 ppm</td>
<td>20 ppm</td>
</tr>
<tr>
<td></td>
<td>300; 500* ppm</td>
<td>375 mg/m³, 100 ppm</td>
<td>20 ppm</td>
<td>100 ppm</td>
<td>BEI, OTO, A4</td>
</tr>
<tr>
<td><strong>64-17-5 Ethyl alcohol</strong></td>
<td>1900 mg/m³, 1000 ppm</td>
<td>1900 mg/m³, 1000 ppm</td>
<td>1000 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>141-78-6 ethyl acetate</strong></td>
<td>1400 mg/m³, 400 ppm</td>
<td>1400 mg/m³, 400 ppm</td>
<td>1000 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>67-63-0 propan-2-ol</strong></td>
<td>980 mg/m³, 400 ppm</td>
<td>1225 mg/m³, 500 ppm</td>
<td>980 mg/m³, 400 ppm</td>
<td>200 ppm</td>
<td>BEI, A4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400 ppm</td>
<td>200 ppm</td>
<td>200 ppm</td>
<td></td>
</tr>
<tr>
<td><strong>76-22-2 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one</strong></td>
<td>2 mg/m³</td>
<td>2 mg/m³</td>
<td>3 ppm</td>
<td>2 ppm</td>
<td>A4</td>
</tr>
</tbody>
</table>

*(Contd. of page 4)*
Ingredients with biological limit values:

108-88-3 toluene

<table>
<thead>
<tr>
<th>BEI</th>
<th>0.02 mg/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium</td>
<td>blood</td>
</tr>
<tr>
<td>Time</td>
<td>prior to last shift of workweek</td>
</tr>
<tr>
<td>Parameter</td>
<td>Toluene</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BEI</th>
<th>0.03 mg/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium</td>
<td>urine</td>
</tr>
<tr>
<td>Time</td>
<td>end of shift</td>
</tr>
<tr>
<td>Parameter</td>
<td>Toluene</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BEI</th>
<th>0.3 mg/g creatinine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium</td>
<td>urine</td>
</tr>
<tr>
<td>Time</td>
<td>end of shift</td>
</tr>
<tr>
<td>Parameter</td>
<td>o-Cresol with hydrolysis (background)</td>
</tr>
</tbody>
</table>

67-63-0 propan-2-ol

<table>
<thead>
<tr>
<th>BEI</th>
<th>40 mg/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium</td>
<td>urine</td>
</tr>
<tr>
<td>Time</td>
<td>end of shift at end of workweek</td>
</tr>
<tr>
<td>Parameter</td>
<td>Acetone (background, nonspecific)</td>
</tr>
</tbody>
</table>

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 skin.
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.
Trade name: EMS CONDUCTIVE GOLD-PASTE

9 Physical and chemical properties

- Information on basic physical and chemical properties
  - General Information
  - Appearance:
    - Form: Liquid
    - Color: Gold colored
  - Odor: Mild
  - Odor threshold: Not determined.
  - pH-value: Not determined.

- Change in condition
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: 75 °C (167 °F)

- Flash point: 4 °C (39.2 °F)

- Flammability (solid, gaseous): Highly flammable.

- Decomposition temperature: Not determined.

- Auto igniting: Product is not selfigniting.

- Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- Explosion limits:
  - Lower: 1.2 Vol %
  - Upper: 7 Vol %

- Vapor pressure at 20 °C (68 °F): 29 hPa (21.8 mm Hg)

- Density: Not determined.
- 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: 23.0 %
  - VOC content: 23.00 %
  - 230.0 g/L / 1.92 lb/gal

- Solids content: 0.0 %
### 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**: No irritating effect.
    - **Sensitization**: Sensitization possible through skin contact.
- **Additional toxicological information**:
  The product shows the following dangers according to internally approved calculation methods for preparations: Irritant
- **Carcinogenic categories**
  - **IARC (International Agency for Research on Cancer)**
    | Compound | Category |
    |----------|----------|
    | 108-88-3 toluene | 3 |
    | 64-17-5 Ethyl alcohol | 1 |
    | 67-63-0 propan-2-ol | 3 |
    | 5989-27-5 (R)-p-mentha-1,8-diene | 3 |
  - **NTP (National Toxicology Program)**
    None of the ingredients is listed.
  - **OSHA-Ca (Occupational Safety Health Administration)**
    None of the ingredients is listed.

### 12 Ecological information

- **Toxicity**
  - **Aquatic toxicity**: No further relevant information available.
  - **Persistence and degradability**: No further relevant information available.
- **Behavior in environmental systems**:
  - **Bioaccumulative potential**: No further relevant information available.
  - **Mobility in soil**: No further relevant information available.
- **Additional ecological information**:
  - **General notes**:
    Water hazard class 1 (Self-assessment): slightly hazardous for water
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

(Contd. on page 9)
Trade name: EMS CONDUCTIVE GOLD-PASTE

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

13 Disposal considerations

- Waste treatment methods
  - Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
  - DOT, ADR, IMDG, IATA UN1993
- UN proper shipping name
  - DOT Flammable liquids, n.o.s. (Toluene, Ethyl acetate)
  - ADR 1993 FLAMMABLE LIQUID, N.O.S. (TOLUENE, ETHYL ACETATE)
  - IMDG, IATA FLAMMABLE LIQUID, N.O.S. (TOLUENE, ETHYL ACETATE)
- Transport hazard class(es)
  - DOT
    - Class 3 Flammable liquids
    - Label 3, 6.1
  - ADR
    - Class 3 Flammable liquids
    - Label 3+6.1
  - IMDG
    - Class 3 Flammable liquids

(Contd. of page 8)
## 55.0.4 Label

- **IATA**

  ![IATA Symbol](image)

- **Class**
  - 3 Flammable liquids

- **Label**
  - 3 (6.1)

- **Packing group**
  - DOT, ADR, IMDG, IATA: II

### Environmental hazards:
- Not applicable.

### Special precautions for user
- Warning: Flammable liquids
- EMS Number: F-E,S-E

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
- Not applicable.

### Transport/Additional information:
- **DOT**
  - Quantity limitations:
    - On passenger aircraft/rail: 1 L
    - On cargo aircraft only: 60 L

- **ADR**
  - Excepted quantities (EQ)
    - Code: E2
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 500 ml

- **IMDG**
  - Limited quantities (LQ)
    - 1L
  - Excepted quantities (EQ)
    - Code: E2
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 500 ml

### UN "Model Regulation":
- UN 1993 FLAMMABLE LIQUID, N.O.S. (TOLUENE, ETHYL ACETATE), 3 (6.1), II

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - No further relevant information available.
- **Sara**
  - **Section 355 (extremely hazardous substances):**
    - None of the ingredients is listed.
  - **Section 313 (Specific toxic chemical listings):**
    - 108-88-3 toluene
    - 67-63-0 propan-2-ol
  - **TSCA (Toxic Substances Control Act):**
    - All components have the value ACTIVE.
<table>
<thead>
<tr>
<th>Hazardous Air Pollutants</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3 toluene</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Proposition 65</th>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemicals known to cause cancer:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients is listed.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemicals known to cause reproductive toxicity for females:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients is listed.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemicals known to cause reproductive toxicity for males:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients is listed.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemicals known to cause developmental toxicity:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3 toluene</td>
<td></td>
</tr>
<tr>
<td>64-17-5 Ethyl alcohol</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Carcinogenic categories</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>EPA (Environmental Protection Agency)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3 toluene</td>
<td>II</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TLV (Threshold Limit Value)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3 toluene</td>
<td>A4</td>
</tr>
<tr>
<td>64-17-5 Ethyl alcohol</td>
<td>A3</td>
</tr>
<tr>
<td>67-63-0 propan-2-ol</td>
<td>A4</td>
</tr>
<tr>
<td>76-22-2 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one</td>
<td>A4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NIOSH-Ca (National Institute for Occupational Safety and Health)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients is listed.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GHS label elements</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>The product is classified and labeled according to the Globally Harmonized System (GHS).</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazard pictograms</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>GHS02 GHS07 GHS08</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Signal word</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Danger</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazard-determining components of labeling:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>toluene</td>
<td></td>
</tr>
<tr>
<td>(R)-p-mentha-1,8-diene</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazard statements</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Highly flammable liquid and vapor.</td>
<td></td>
</tr>
<tr>
<td>Causes skin irritation.</td>
<td></td>
</tr>
<tr>
<td>May cause an allergic skin reaction.</td>
<td></td>
</tr>
<tr>
<td>Suspected of damaging fertility or the unborn child.</td>
<td></td>
</tr>
<tr>
<td>May cause damage to organs through prolonged or repeated exposure.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Precautionary statements</th>
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<tbody>
<tr>
<td>Obtain special instructions before use.</td>
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<tr>
<td>Do not handle until all safety precautions have been read and understood.</td>
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<tr>
<td>Keep away from heat/sparks/open flames/hot surfaces. - No smoking.</td>
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<tr>
<td>Keep container tightly closed.</td>
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<tr>
<td>Ground/bond container and receiving equipment.</td>
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<tr>
<td>Use explosion-proof electrical/ventilating/lighting/equipment.</td>
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Trade name: EMS CONDUCTIVE GOLD-PASTE

Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves / protective clothing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

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

16 Other information

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

· Contact:
· Date of preparation / last revision 11/08/2022 / -
· Abbreviations and acronyms:
  ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  DOT: US Department of Transportation
  IATA: International Air Transport Association
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  NFPA: National Fire Protection Association (USA)
  HMIS: Hazardous Materials Identification System (USA)
  VOC: Volatile Organic Compounds (USA, EU)
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
  NIOSH: National Institute for Occupational Safety
  OSHA: Occupational Safety Health
  TLV: Threshold Limit Value
  PEL: Permissible Exposure Limit
  REL: Recommended Exposure Limit
  BEI: Biological Exposure Limit
  Flammable Liquids 2: Flammable liquids – Category 2
  Skin Irritation 2: Skin corrosion/irritation – Category 2
  Sensitization - Skin 1: Skin sensitisation – Category 1
  Toxic to Reproduction 2: Reproductive toxicity – Category 2
  Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2