1 Identification

- **Product identifier**
- **Trade name:** COLLOIDAL SILVER PASTE
- **Article number:** 12640
- **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

- **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**
  - **Flame**
    - Substances and mixtures which, in contact with water, emit flammable gases
    - **GHS02 Flame**
      - Flammable Liquids 2
      - H225 Highly flammable liquid and vapor.
      - H260 In contact with water releases flammable gases, which may ignite spontaneously.

  - **Skull and crossbones**
    - Acute Toxicity - Oral 3
    - H301 Toxic if swallowed.

  - **Health hazard**
    - Carcinogenicity 1A
      - H350 May cause cancer.
    - 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.

  - **Skin Irritation 2**
    - H315 Causes skin irritation.
  - **Eye Irritation 2A**
    - H319 Causes serious eye irritation.
  - **Sensitization - Skin 1**
    - H317 May cause an allergic skin reaction.
  - **Specific Target Organ Toxicity - Single Exposure 3**
    - H336 May cause drowsiness or dizziness.

(Contd. on page 2)
· **Label elements**
  · **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**
  ![GHS02](image1)  ![GHS06](image2)  ![GHS07](image3)  ![GHS08](image4)

· **Signal word** Danger

· **Hazard-determining components of labeling:**
  - toluene
  - 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one
  - (R)-p-mentha-1,8-diene
  - Ethyl alcohol

· **Hazard statements**
  - Highly flammable liquid and vapor.
  - In contact with water releases flammable gases, which may ignite spontaneously.
  - Toxic if swallowed.
  - Causes skin irritation.
  - Causes serious eye irritation.
  - May cause an allergic skin reaction.
  - May cause cancer.
  - Suspected of damaging fertility or the unborn child.
  - May cause drowsiness or dizziness.
  - 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.
  - Do not allow contact with water.
  - Handle under inert gas. Protect from moisture.
  - 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.
  - Do not eat, drink or smoke when using this product.
  - Use only outdoors or in a well-ventilated area.
  - Contaminated work clothing must not be allowed out of the workplace.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - If swallowed: Immediately call a poison center/doctor.
  - Specific treatment (see on this label).
  - Rinse mouth.
  - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
  - Continue rinsing.
  - IF exposed or concerned: Get medical advice/attention.
  - Call a poison center/doctor if you feel unwell.
  - Get medical advice/attention if you feel unwell.
  - Take off contaminated clothing and wash it before reuse.

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

  Health = 2  
  Fire = 3  
  Reactivity = 2

The substance demonstrates unusual reactivity with water.  

· **HMIS-ratings (scale 0 - 4)**

  HEALTH  
  Health = *2  
  FIRE  
  Fire = 3  
  REACTIVITY  
  Reactivity = 2

· **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:**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3 toluene</td>
<td>&gt;10-≤25%</td>
</tr>
<tr>
<td>141-78-6 ethyl acetate</td>
<td>&gt;2.5-≤10%</td>
</tr>
<tr>
<td>5989-27-5 (R)-p-mentha-1,8-diene</td>
<td>&gt;2.5-≤10%</td>
</tr>
<tr>
<td>64-17-5 Ethyl alcohol</td>
<td>≤2.5%</td>
</tr>
<tr>
<td>67-63-0 propan-2-ol</td>
<td>≤2.5%</td>
</tr>
<tr>
<td>76-22-2 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one</td>
<td>≤2.5%</td>
</tr>
</tbody>
</table>

### 4 First-aid measures

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

  Immediately remove any clothing soiled by the product.  
  Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
  In case of irregular breathing or respiratory arrest provide artificial respiration.
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:**
  Inform respective authorities in case of seepage into water course or sewage system.
  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.
- **Protective Action Criteria for Chemicals**

<table>
<thead>
<tr>
<th>PAC-1:</th>
<th>PAC-2:</th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-22-4 silver</td>
<td>7440-22-4 silver</td>
</tr>
<tr>
<td>108-88-3 toluene</td>
<td>108-88-3 toluene</td>
</tr>
<tr>
<td>141-78-6 ethyl acetate</td>
<td>141-78-6 ethyl acetate</td>
</tr>
<tr>
<td>5989-27-5 (R)-p-mentha-1,8-diene</td>
<td>5989-27-5 (R)-p-mentha-1,8-diene</td>
</tr>
<tr>
<td>64-17-5 Ethyl alcohol</td>
<td>64-17-5 Ethyl alcohol</td>
</tr>
<tr>
<td>67-63-0 propan-2-ol</td>
<td>67-63-0 propan-2-ol</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>PAC-1:</th>
<th>PAC-2:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.3 mg/m³</td>
<td>170 mg/m³</td>
</tr>
<tr>
<td></td>
<td>67 ppm</td>
<td>560 ppm</td>
</tr>
<tr>
<td></td>
<td>1,200 ppm</td>
<td>1,700 ppm</td>
</tr>
<tr>
<td></td>
<td>15 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,800 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>400 ppm</td>
<td></td>
</tr>
</tbody>
</table>
Trade name: COLLOIDAL SILVER PASTE

5989-27-5  (R)-p-mentha-1,8-diene  67 ppm
64-17-5  Ethyl alcohol  3300* ppm
67-63-0  propan-2-ol  2000* ppm

· PAC-3:
7440-22-4  silver  990 mg/m³
108-88-3  toluene  3700* ppm
141-78-6  ethyl acetate  10000** ppm
5989-27-5  (R)-p-mentha-1,8-diene  170 ppm
64-17-5  Ethyl alcohol  15000* ppm
67-63-0  propan-2-ol  12000** ppm

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:
  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.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.
· Control parameters
  · Components with limit values that require monitoring at the workplace:
    The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
    At this time, the remaining constituent has no known exposure limits.

108-88-3 toluene

PEL  Long-term value: 200 ppm
   Ceiling limit value: 300; 500* ppm
   *10-min peak per 8-hr shift
REL  Short-term value: 560 mg/m³, 150 ppm
     Long-term value: 375 mg/m³, 100 ppm
TLV  Long-term value: 20 ppm
     BEI, OTO, A4

(Contd. on page 6)
Trade name: COLLOIDAL SILVER PASTE

<table>
<thead>
<tr>
<th>Chemical</th>
<th>PEL Long-term value</th>
<th>REL Long-term value</th>
<th>TLV Long-term value</th>
</tr>
</thead>
<tbody>
<tr>
<td>141-78-6 ethyl acetate</td>
<td>1400 mg/m³, 400 ppm</td>
<td>1400 mg/m³, 400 ppm</td>
<td>400 ppm</td>
</tr>
<tr>
<td>64-17-5 Ethyl alcohol</td>
<td>1900 mg/m³, 1000 ppm</td>
<td>1900 mg/m³, 1000 ppm</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>67-63-0 propan-2-ol</td>
<td>980 mg/m³, 400 ppm</td>
<td>1225 mg/m³, 500 ppm</td>
<td>400 ppm</td>
</tr>
<tr>
<td>76-22-2 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one</td>
<td>2 mg/m³</td>
<td>2 mg/m³</td>
<td>3 ppm</td>
</tr>
</tbody>
</table>

Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>Chemical</th>
<th>BEI</th>
<th>Medium</th>
<th>Time</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3 toluene</td>
<td>0.02 mg/L</td>
<td>blood</td>
<td>prior to last shift of workweek</td>
<td>Toluene</td>
</tr>
<tr>
<td></td>
<td>0.03 mg/L</td>
<td>urine</td>
<td>end of shift</td>
<td>Toluene</td>
</tr>
<tr>
<td></td>
<td>0.3 mg/g creatinine</td>
<td>urine</td>
<td>end of shift</td>
<td>o-Cresol with hydrolysis (background)</td>
</tr>
<tr>
<td>67-63-0 propan-2-ol</td>
<td>40 mg/L</td>
<td>urine</td>
<td>end of shift at end of workweek</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.
Trade name: COLLOIDAL SILVER PASTE

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

- **Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**
    - Form: Pasty
    - Color: Grey
    - 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:** -1 °C (30.2 °F)

- **Flammability (solid, gaseous):** Highly flammable. Contact with water liberates extremely flammable gases.

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Spontaneously flammable in air.
### Trade name: COLLOIDAL SILVER PASTE

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Danger of explosion:</strong></td>
<td>Product is not explosive. However, formation of explosive air/vapor mixtures are possible.</td>
</tr>
<tr>
<td><strong>Explosion limits:</strong></td>
<td></td>
</tr>
<tr>
<td>Lower</td>
<td>1.2 Vol %</td>
</tr>
<tr>
<td>Upper</td>
<td>7 Vol %</td>
</tr>
<tr>
<td><strong>Vapor pressure at 20 °C (68 °F):</strong></td>
<td>29 hPa (21.8 mm Hg)</td>
</tr>
<tr>
<td><strong>Density:</strong></td>
<td>Not determined.</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 Water:</strong></td>
<td>Not miscible or difficult to mix.</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water):</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Viscosity:</strong></td>
<td></td>
</tr>
<tr>
<td>Dynamic at 20 °C (68 °F):</td>
<td>50,000 mPas</td>
</tr>
<tr>
<td>Kinematic:</td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Solvent content:</strong></td>
<td></td>
</tr>
<tr>
<td>Organic solvents:</td>
<td>35.0 %</td>
</tr>
<tr>
<td>VOC content:</td>
<td>35.00 %</td>
</tr>
<tr>
<td></td>
<td>350.0 g/l / 2.92 lb/gal</td>
</tr>
<tr>
<td><strong>Solids content:</strong></td>
<td>60-70 %</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:** Not determined.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** Contact with water releases flammable gases.
- **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 skin contact.
  - **Additional toxicological information:**
    - The product shows the following dangers according to internally approved calculation methods for preparations:
      - Toxic
      - Irritant

(Contd. on page 9)
Trade name: COLLOIDAL SILVER PASTE

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.
  · Ecotaxical effects:
    · Remark: Toxic for fish
  · 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.
      Also poisonous for fish and plankton in water bodies.
      Toxic for aquatic organisms
    · 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
### Transport hazard class(es)

<table>
<thead>
<tr>
<th>DOT</th>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
<td>3 Flammable liquids</td>
<td>3 Flammable liquids</td>
<td>3 Flammable liquids</td>
</tr>
<tr>
<td>Label</td>
<td>3</td>
<td>3</td>
<td>3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Class</th>
<th>3 Flammable liquids</th>
</tr>
</thead>
<tbody>
<tr>
<td>Label</td>
<td>3</td>
</tr>
</tbody>
</table>

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<tbody>
<tr>
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</tr>
<tr>
<td>Label</td>
</tr>
</tbody>
</table>

### Environmental hazards:
- Marine pollutant: Yes (DOT)
- Symbol (fish and tree)
- Special marking (ADR): Symbol (fish and tree)

### Special precautions for user
- Warning: Flammable liquids
- Hazard identification number (Kemler code): 33
- Stowage Category: A

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
- Not applicable.

### Transport/Additional information:
- DOT
  - Quantity limitations: On passenger aircraft/rail: 5 L
    - On cargo aircraft only: 60 L
  - Remarks: Special marking with the symbol (fish and tree)
### 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):**
    7440-22-4 silver
    108-88-3 toluene
    67-63-0 propan-2-ol
  - **TSCA (Toxic Substances Control Act):**
    All components have the value ACTIVE.
  - **Hazardous Air Pollutants**
    108-88-3 toluene
  - **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:**
      108-88-3 toluene
      64-17-5 Ethyl alcohol
  - **Carcinogenic categories**
    - **EPA (Environmental Protection Agency)**
      7440-22-4 silver $D$
      108-88-3 toluene $II$
    - **TLV (Threshold Limit Value)**
      108-88-3 toluene $A4$
Trade name: COLLOIDAL SILVER PASTE

| 64-17-5 | Ethyl alcohol | A3 |
| 67-63-0 | propan-2-ol | A4 |
| 76-22-2 | 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one | A4 |

· NIOSH-Ca (National Institute for Occupational Safety and Health)
  None of the ingredients is listed.

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

· Hazard pictograms

  GHS02  GHS06  GHS07  GHS08

· Signal word
  Danger

· Hazard-determining components of labeling:
  toluene
  1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one
  (R)-p-mentha-1,8-diene
  Ethyl alcohol

· Hazard statements
  Highly flammable liquid and vapor.
  In contact with water releases flammable gases, which may ignite spontaneously.
  Toxic if swallowed.
  Causes skin irritation.
  Causes serious eye irritation.
  May cause an allergic skin reaction.
  May cause cancer.
  Suspected of damaging fertility or the unborn child.
  May cause drowsiness or dizziness.
  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.
  Do not allow contact with water.
  Handle under inert gas. Protect from moisture.
  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.
  Do not eat, drink or smoke when using this product.
  Use only outdoors or in a well-ventilated area.
  Contaminated work clothing must not be allowed out of the workplace.
  Wear protective gloves/protective clothing/eye protection/face protection.
  If swallowed: Immediately call a poison center/doctor.
  Specific treatment (see on this label).
  Rinse mouth.
  If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  IF INHALED: Remove person to fresh air and keep comfortable for breathing.

(Contd. on page 11)
Trade name: COLLOIDAL SILVER PASTE

(Contd. of page 12)

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

IF exposed or concerned: Get medical advice/attention.

Call a poison center/doctor if you feel unwell.

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.

Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.

If eye irritation persists: Get medical advice/attention.

Wash contaminated clothing before reuse.

In case of fire: Use CO2, sand, extinguishing powder to extinguish.

Store in a dry place. Store in a closed container.

Store in a well-ventilated place. Keep container tightly closed.

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 11/09/2022 /
- 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
  Substances and mixtures which, in contact with water, emit flammable gases 1: Substances and mixtures which in contact with water emit flammable gases – Category 1
  Acute Toxicity - Oral 3: Acute toxicity – Category 3
  Skin Irritation 2: Skin corrosion/irritation – Category 2
  Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
  Sensitization - Skin 1: Skin sensitisation – Category 1
  Carcinogenicity 1A: Carcinogenicity – Category 1A
  Toxic to Reproduction 2: Reproductive toxicity – Category 2
  Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
  Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2