1 Identification

- **Product identifier**
  - **Trade name**: PolyShield Paraffin Repellant/Remover
- **Article number**: 64141
- **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: info@emsdiasum.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**
  - ![GHS07]
  - Acute Toxicity - Inhalation 4 H332 Harmful if inhaled.
  - 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**
    - ![GHS07]

- **Signal word** Warning

- **Hazard-determining components of labeling**: Mentha piperita L. Carvone Lemon oil

- **Hazard statements**
  - Harmful if inhaled.
  - May cause an allergic skin reaction.

- **Precautionary statements**
  - Avoid breathing dust/fume/gas/mist/vapors/spray
  - Use only outdoors or in a well-ventilated area.
  - Contaminated work clothing must not be allowed out of the workplace.
  - Wear protective gloves.
  - If on skin: Wash with plenty of water.
  - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - Call a poison center/doctor if you feel unwell.
  - Specific treatment (see on this label).
Trade name: PolyShield Paraffin Repellant/Remover

If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:
  - NFPA ratings (scale 0 - 4)
    
    Health = 1
    Fire = 1
    Reactivity = 0

  - HMIS-ratings (scale 0 - 4)
    
    HEALTH health = 1
    FIRE Fire = 1
    REACTIVITY Reactivity = 0

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

3 Composition/information on ingredients

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

<table>
<thead>
<tr>
<th>Dangerous components:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>8042-47-5 White mineral oil, petroleum</td>
<td>&gt;50-≤100%</td>
</tr>
<tr>
<td>64742-48-9 Naphtha (petroleum), hydrotreated heavy</td>
<td>&gt;25-≤50%</td>
</tr>
<tr>
<td>120-51-4 Benzyl benzoate</td>
<td>≤2.5%</td>
</tr>
<tr>
<td>8006-90-4 Mentha piperita L.</td>
<td>≤2.5%</td>
</tr>
<tr>
<td>99-49-0 Carvone</td>
<td>≤2.5%</td>
</tr>
<tr>
<td>8008-56-8 Lemon oil</td>
<td>≤2.5%</td>
</tr>
</tbody>
</table>

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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
  In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:
  Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
  - Most important symptoms and effects, both acute and delayed No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed
    No further relevant information available.
5 Fire-fighting measures

· Extinguishing media
· Suitable extinguishing agents: Use fire fighting measures that suit the environment.
· Special hazards arising from the substance or mixture: No further relevant information available.
· Advice for firefighters
· Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures: Not required.
· Environmental precautions:
  Inform respective authorities in case of seepage into water course or sewage system.
  Dilute with plenty of water.
  Do not allow to enter sewers/surface or ground water.
· Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  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.
· Protective Action Criteria for Chemicals

<table>
<thead>
<tr>
<th>PAC-1</th>
<th>64742-48-9 Naphtha (petroleum), hydrotreated heavy</th>
<th>350 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>120-51-4 Benzyl benzoate</td>
<td>5.7 mg/m³</td>
</tr>
<tr>
<td></td>
<td>101-84-8 diphenyl ether</td>
<td>2 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-2</th>
<th>64742-48-9 Naphtha (petroleum), hydrotreated heavy</th>
<th>1,800 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>120-51-4 Benzyl benzoate</td>
<td>63 mg/m³</td>
</tr>
<tr>
<td></td>
<td>101-84-8 diphenyl ether</td>
<td>16 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-3</th>
<th>64742-48-9 Naphtha (petroleum), hydrotreated heavy</th>
<th>40,000 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>120-51-4 Benzyl benzoate</td>
<td>380 mg/m³</td>
</tr>
<tr>
<td></td>
<td>101-84-8 diphenyl ether</td>
<td>96 ppm</td>
</tr>
</tbody>
</table>

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.
Trade name: PolyShield Paraffin Repellant/Remover

- 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
  - Personal protective equipment:
  - General protective and hygienic measures:
    Keep away from foodstuffs, beverages and feed.
    Wash hands before breaks and at the end of work.
  - Breathing equipment:
    In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
  - Protection of hands:
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
    Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
    Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
  - Material of gloves
    The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
  - Penetration time of glove material
    The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - Eye protection: Goggles recommended during refilling.

9 Physical and chemical properties

- Information on basic physical and chemical properties
  - General Information
  - Appearance:
    Form: Liquid
    Color: Clear
  - Odor: Characteristic
  - Odor threshold: Not determined.
  - pH-value: Not determined.
  - Change in condition
    Melting point/Melting range: Undetermined.
    Boiling point/Boiling range: 178.9 °C (354 °F)
  - Flash point: 142 °C (287.6 °F)
  - Flammability (solid, gaseous): Not flammable.
Trade name: PolyShield Paraffin Repellant/Remover

- **Ignition temperature**: 240 °C (464 °F)
- **Decomposition temperature**: Not determined.
- **Auto igniting**: Product is not self-igniting.
- **Danger of explosion**: Product does not present an explosion hazard.
- **Explosion limits**:
  - Lower: 0.6 Vol %
  - Upper: 7 Vol %
- **Vapor pressure at 20 °C (68 °F)**: 1 hPa (0.8 mm Hg)
- **Density at 20 °C (68 °F)**: 0.76 g/cm³ (6.3422 lbs/gal)
  - Relative density: Not determined.
  - Vapor density: Not determined.
  - Evaporation rate: Not determined.
- **Solubility in / Miscibility with Water**: Fully miscible.
- **Partition coefficient (n-octanol/water)**: Not determined.
- **Viscosity**:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- **Solvent content**:
  - **VOC content**: 0.00 %
    - 0.0 g/l / 0.00 lb/gal
  - **Solids content**: 0.0 %
- **Other information**: No further relevant information available.

### 10 Stability and reactivity

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

### 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity**:
  - **Primary irritant effect**:
    - **on the skin**: No irritant effect.
    - **on the eye**: No irritating effect.
  - **Sensitization**: No sensitizing effects known.
- **Additional toxicological information**:
  The product shows the following dangers according to internally approved calculation methods for preparations:
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.
  - Ecotoxicological effects:
    - Remark: Harmful to fish

- Additional ecological information:
  - General notes:
    - Water hazard class 2 (Self-assessment): hazardous for water
    - Do not allow product to reach ground water, water course or sewage system.
    - Danger to drinking water if even small quantities leak into the ground.
    - Harmful to 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.
  - Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

- UN-Number
  - DOT, ADR, IMDG, IATA: UN3082

- UN proper shipping name
  - DOT: Environmentally hazardous substance, liquid, n.o.s.
Trade name: PolyShield Paraffin Repellant/Remover

<table>
<thead>
<tr>
<th>Category</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR</td>
<td>3082</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated heavy)</td>
</tr>
<tr>
<td>IMDG</td>
<td></td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated heavy), MARINE POLLUTANT</td>
</tr>
<tr>
<td>IATA</td>
<td></td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated heavy)</td>
</tr>
</tbody>
</table>

### Transport hazard class(es)

<table>
<thead>
<tr>
<th>Category</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT, ADR, IMDG, IATA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Class: 9 Miscellaneous dangerous substances and articles
- Label: 9

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

- Stowage Category: A
- Not applicable.

### Transport/Additional information:

- DOT
  - Quantity limitations: On passenger aircraft/rail: 450 L
  - On cargo aircraft only: 450 L
  - Remarks: Special marking with the symbol (fish and tree).

- ADR
  - Excepted quantities (EQ): Code: E1
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 1000 ml

- IMDG
  - Limited quantities (LQ): 5L
    - Code: E1
  - Excepted quantities (EQ): Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 1000 ml

- UN "Model Regulation":
  - UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY), 9, III
**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  No further relevant information available.

- **Sara**
  - **Section 355 (extremely hazardous substances):**
    None of the ingredients is listed.
  - **Section 313 (Specific toxic chemical listings):**
    None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**
  All components have the value ACTIVE.

- **Hazardous Air Pollutants**
  101-84-8 diphenyl ether

- **Proposition 65**
  - **Chemicals known to cause cancer:**
    None of the ingredients is listed.
  - **Chemicals known to cause reproductive toxicity for females:**
    None of the ingredients is listed.
  - **Chemicals known to cause reproductive toxicity for males:**
    None of the ingredients is listed.
  - **Chemicals known to cause developmental toxicity:**
    None of the ingredients is listed.

- **Carcinogenic categories**
  - **EPA (Environmental Protection Agency)**
    None of the ingredients is listed.
  - **TLV (Threshold Limit Value)**
    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**
    GHS07

- **Signal word** Warning

- **Hazard-determining components of labeling:**
  Mentha piperita L.
  Carvone
  Lemon oil

- **Hazard statements**
  Harmful if inhaled.
  May cause an allergic skin reaction.

- **Precautionary statements**
  Avoid breathing dust/fume/gas/mist/vapors/spray
55. Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
If on skin: Wash with plenty of water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a poison center/doctor if you feel unwell.
Specific treatment (see on this label).
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
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 11/03/2022 / -
· 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
  Acute Toxicity - Inhalation 4: Acute toxicity – Category 4
  Sensitization - Skin 1: Skin sensitisation – Category 1