SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: KonductoMet

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

1.3 Details of the supplier of the safety data sheet

Supplier:
Agar Scientific Ltd
Parsonage Lane
Stansted CM24 8GF
United Kingdom
sales@agarscientific.com
Tel: +44 (0) 1279 813 519

Further information obtainable from: Technical Support

1.4 Emergency telephone number: 24 hours: +44 (0)1856 407333

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

GHS08 health hazard

Muta. 2 H341 Suspected of causing genetic defects.

GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H332 Harmful if inhaled.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 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 Warning

Hazard-determining components of labelling:
Graphite
methenamine
phenol

Hazard statements
H302+H332 Harmful if swallowed or if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

(Contd. on page 2)
Safety data sheet  
according to 1907/2006/EC, Article 31

Date Printed 27.02.2019  
Revision Date 04.01.2019

Trade name: KonductoMet

H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.

Precautionary statements
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

<table>
<thead>
<tr>
<th>CAS</th>
<th>EINECS</th>
<th>Description</th>
<th>Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315</th>
<th>Methenamine</th>
<th>Flam. Sol. 2, H228; Skin Sens. 1, H317</th>
<th>Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Muta. 2, H341; STOT RE 2, H373; Skin Corr. 1B, H314</th>
</tr>
</thead>
<tbody>
<tr>
<td>7782-42-5</td>
<td>231-955-3</td>
<td>Graphite</td>
<td>35.0%</td>
<td>6.0%</td>
<td>1.0%</td>
<td></td>
</tr>
<tr>
<td>100-97-0</td>
<td>202-905-8</td>
<td>methenamine</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>108-95-2</td>
<td>203-632-7</td>
<td>phenol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional information:

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:
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.

After inhalation:
Supply fresh air.
No adverse effects are anticipated from inhalation.

After skin contact: Wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye 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.

(Contd. on page 3)
SECTION 5: Firefighting measures

- 5.1 Extinguishing media
  - Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
  - For safety reasons unsuitable extinguishing agents:
    Use of water spray when fighting fire may be inefficient.

- 5.2 Special hazards arising from the substance or mixture
  - Uniform fire code: Sensitizer: Solid

- 5.3 Advice for firefighters
  - Protective equipment: Positive pressure self-contained breathing apparatus.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
  - Use PPE as required, Avoid skin contact.
  - Ensure adequate ventilation, evacuate personnel to safe areas.

- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

- 6.3 Methods and material for containment and cleaning up:
  - 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
  - Thorough dedusting.
  - Ensure good ventilation/exhaustion at the workplace.
  - Open and handle receptacle with care.

- 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.

- 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:
    - 108-95-2 phenol
      - WEL: Short-term value: 16 mg/m³, 4 ppm
      - Long-term value: 7.8 mg/m³, 2 ppm

- Additional information: The lists valid during the making were used as basis.
8.2 Exposure controls
- Personal protective equipment:
  - General protective and hygienic measures:
    Keep away from foodstuffs, beverages and feed.
    Remove all soiled and contaminated clothing
    Wash hands before breaks and at the end of work.
    Store protective clothing separately.
    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.
- Eye protection:
  - Tightly sealed goggles

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Solid
      - Colour: According to product specification
    - Odour: Characteristic
    - Odour threshold: Not determined.
  - pH-value: Not applicable.
  - Change in condition
    - Melting point/freezing point: Undetermined.
    - Initial boiling point and boiling range: Undetermined.
  - Flash point: Not applicable.
  - Flammability (solid, gas): Not determined.
  - Decomposition temperature: Not determined.
Trade name: KonductoMet

<table>
<thead>
<tr>
<th>48.1.26</th>
</tr>
</thead>
<tbody>
<tr>
<td>· Auto-ignition temperature: Product is not selfigniting.</td>
</tr>
<tr>
<td>· Explosive properties: Product does not present an explosion hazard.</td>
</tr>
<tr>
<td>· Explosion limits:</td>
</tr>
<tr>
<td>Lower: Not determined.</td>
</tr>
<tr>
<td>Upper: Not determined.</td>
</tr>
<tr>
<td>· Vapour pressure: Not applicable.</td>
</tr>
<tr>
<td>· Density: Not determined.</td>
</tr>
<tr>
<td>· Relative density Not determined.</td>
</tr>
<tr>
<td>· Vapour density Not applicable.</td>
</tr>
<tr>
<td>· Evaporation rate Not applicable.</td>
</tr>
<tr>
<td>· Solubility in / Miscibility with water: Insoluble.</td>
</tr>
<tr>
<td>· Partition coefficient: n-octanol/water: Not determined.</td>
</tr>
<tr>
<td>· Viscosity:</td>
</tr>
<tr>
<td>Dynamic: Not applicable.</td>
</tr>
<tr>
<td>Kinematic: Not applicable.</td>
</tr>
<tr>
<td>· Solvent content:</td>
</tr>
<tr>
<td>Organic solvents: 1.0 %</td>
</tr>
<tr>
<td>VOC (EC) 0.00 %</td>
</tr>
<tr>
<td>· Solids content: 65.0 %</td>
</tr>
</tbody>
</table>

**SECTION 10: Stability and reactivity**

| 9.2 Other information No further relevant information available. |

| 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: Strong acids, Strong oxidizing agents, Strong bases, Halgens |
| 10.6 Hazardous decomposition products: No dangerous decomposition products known. |

**SECTION 11: Toxicological information**

| 11.1 Information on toxicological effects |
| 11.2 Acute toxicity |
| Harmful if swallowed or if inhaled. |

<table>
<thead>
<tr>
<th>108-95-2 phenol</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD/LC50 values relevant for classification:</td>
</tr>
<tr>
<td>Oral LD50 317 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal LD50 850 mg/kg (rabbit)</td>
</tr>
</tbody>
</table>

| 11.3 Skin corrosion/irritation Causes skin irritation. |
| 11.4 Serious eye damage/irritation Causes serious eye irritation. |
| 11.5 Respiratory or skin sensitisation May cause an allergic skin reaction. |

(Contd. on page 6)
· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
· Germ cell mutagenicity
  Suspected of causing genetic defects.
· Carcinogenicity Based on available data, the classification criteria are not met.
· Reproductive toxicity Based on available data, the classification criteria are not met.
· STOT-single exposure Based on available data, the classification criteria are not met.
· STOT-repeated exposure Based on available data, the classification criteria are not met.
· Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity
  · Aquatic toxicity: No further relevant information available.
· 12.2 Persistence and degradability No further relevant information available.
· 12.3 Bioaccumulative potential No further relevant information available.
· 12.4 Mobility in soil No further relevant information available.
· Additional ecological information:
  · General notes:
    Water hazard class 1 (German Regulation) (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.
· 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.
  · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number
  · ADR, ADN, IMDG, IATA Void
· 14.2 UN proper shipping name
  · ADR, ADN, IMDG, IATA Void
· 14.3 Transport hazard class(es)
  · ADR, ADN, IMDG, IATA
    · Class Void
· 14.4 Packing group
  · ADR, IMDG, IATA Void
· 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.

(Contd. on page 7)
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 and should assist the user with the safe handling of this material when properly applied. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases
  H228 Flammable solid.
  H301 Toxic if swallowed.
  H302 Harmful if swallowed.
  H311 Toxic in contact with skin.
  H312 Harmful in contact with skin.
  H314 Causes severe skin burns and eye damage.
  H315 Causes skin irritation.
  H317 May cause an allergic skin reaction.
  H331 Toxic if inhaled.
  H332 Harmful if inhaled.
  H341 Suspected of causing genetic defects.
  H373 May cause damage to organs through prolonged or repeated exposure.

- Department issuing SDS: Sales department
- Contact:
  sales@agarscientific.com
  Tel: +44 (0) 1279 813 519
- 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)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
  Flam. Sol. 2: Flammable solids – Category 2
  Acute Tox. 3: Acute toxicity – Category 3
  Acute Tox. 4: Acute toxicity – Category 4
  Skin Corr. 1B: Skin corrosion/Irritation – Category 1B
  Skin Irrit. 2: Skin corrosion/Irritation – Category 2
  Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  Skin Sens. 1: Skin sensitisation – Category 1
  Mut. 2: Germ cell mutagenicity – Category 2
  STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2