SAFETY DATA SHEET
Gas Clean Filter FID Kit 1/8 in, Part Number CP736530

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

This product is considered an article. This Safety Data Sheet is written based on the encapsulated substance or mixture in this article.

1.1 Product identifier
Product name: Gas Clean Filter FID Kit 1/8 in, Part Number CP736530
Part no. (chemical kit): CP736530
Part no.: Gas Clean Filter Hydrocarbon CP17972
Gas Clean Filter Oxygen CP17970
Gas Clean Filter Moisture CP17971

1.2 Relevant identified uses of the substance or mixture and uses advised against
Material uses: Analytical chemistry.
Gas Clean Filter Oxygen 1 x 200 ml
Gas Clean Filter Moisture 1 x 200 ml
Gas Clean Filter Hydrocarbon 2 x 200 ml

1.3 Details of the supplier of the safety data sheet
Agilent Technologies LDA UK Ltd.
5500 Lakeside Cheadle Royal Business Park,
Cheadle, Cheshire, SK8 3GR
United Kingdom
Tel: +44 (0) 345 712 5292
e-mail address of person responsible for this SDS: pdl-msds_author@agilent.com

1.4 Emergency telephone number
Emergency telephone number (with hours of operation): CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product’s directions for use it may present potential health and safety hazards.

2.1 Classification of the substance or mixture
Product definition: Mono-constituent substance (encapsulated in article)
Gas Clean Filter Hydrocarbon
Gas Clean Filter Oxygen Mixture (encapsulated in article)
Gas Clean Filter Moisture Mixture (encapsulated in article)

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Gas Clean Filter Moisture
H373 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE Category 2
SECTION 2: Hazards identification

Ingredients of unknown toxicity: Gas Clean Filter Moisture
Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: > 60%
Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: > 60%
Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: > 60%

Ingredients of unknown ecotoxicity: Gas Clean Filter Moisture
Contains 100% of components with unknown hazards to the aquatic environment

See Section 16 for the full text of the H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms: Gas Clean Filter Moisture

Signal word
Gas Clean Filter Hydrocarbon
No signal word.
Gas Clean Filter Oxygen
No signal word.
Gas Clean Filter Moisture
Warning

Hazard statements
Gas Clean Filter Hydrocarbon
No known significant effects or critical hazards.
Gas Clean Filter Oxygen
No known significant effects or critical hazards.
Gas Clean Filter Moisture
H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention
Gas Clean Filter Hydrocarbon
Not applicable.
Gas Clean Filter Oxygen
P201 - Obtain special instructions before use.
P280 - Wear protective gloves, protective clothing and eye or face protection.
P273 - Avoid release to the environment.
P260 - Do not breathe dust.
Gas Clean Filter Moisture

Response
Gas Clean Filter Hydrocarbon
P260 - Do not handle’dust.
Gas Clean Filter Oxygen
P314 - Get medical advice/attention if you feel unwell.
Gas Clean Filter Moisture
Not applicable.

Storage
Gas Clean Filter Hydrocarbon
Not applicable.
Gas Clean Filter Oxygen
Not applicable.
Gas Clean Filter Moisture
Not applicable.

Disposal
Gas Clean Filter Hydrocarbon
Not applicable.
Gas Clean Filter Oxygen
P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Gas Clean Filter Moisture
Not applicable.

Hazardous ingredients
Gas Clean Filter Oxygen
Not applicable.
- crystalline silica, respirable powder
- cristobalite
Gas Clean Filter Moisture

Supplemental label elements
Gas Clean Filter Hydrocarbon
Contains nickel monoxide. May produce an allergic reaction.
Safety data sheet available on request.
Gas Clean Filter Oxygen
Gas Clean Filter Moisture
Not applicable.
SECTION 2: Hazards identification

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

| Gas Clean Filter | Not applicable. |
| Hydrocarbon | |
| Gas Clean Filter Oxygen | Not applicable. |
| Gas Clean Filter Moisture | Not applicable. |

Special packaging requirements

| Tactile warning of danger | Gas Clean Filter | Not applicable. |
| Hydrocarbon | |
| Gas Clean Filter Oxygen | Not applicable. |
| Gas Clean Filter Moisture | Not applicable. |

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

<table>
<thead>
<tr>
<th>PBT</th>
<th>P</th>
<th>B</th>
<th>T</th>
<th>vPvB</th>
<th>vP</th>
<th>vB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Clean Filter Hydrocarbon</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Gas Clean Filter Oxygen</td>
<td>This mixture does not contain any substances that are assessed to be a PBT or a vPvB.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>This mixture does not contain any substances that are assessed to be a PBT or a vPvB.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other hazards which do not result in classification

| Gas Clean Filter | May form combustible dust concentrations in air. |
| Hydrocarbon | |
| Gas Clean Filter Oxygen | None known. |
| Gas Clean Filter Moisture | None known. |

SECTION 3: Composition/information on ingredients

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

3.1 Substances

| Gas Clean Filter Hydrocarbon | Mono-constituent substance (encapsulated in article) |
| Gas Clean Filter Oxygen | Mixture (encapsulated in article) |
| Gas Clean Filter Moisture | Mixture (encapsulated in article) |

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Clean Filter Hydrocarbon carbon</td>
<td>EC: 231-153-3 CAS: 7440-44-0</td>
<td>100</td>
<td>Not classified.</td>
<td>[A]</td>
</tr>
<tr>
<td>Copper oxide, Activated</td>
<td>EC: 215-269-1 CAS: 1317-38-0 Index: 029-016-00-6</td>
<td>≤10</td>
<td>Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=1)</td>
<td>[1] [2]</td>
</tr>
<tr>
<td>Gas Clean Filter Moisture crystalline silica, respirable powder</td>
<td>EC: 238-878-4 CAS: 14808-60-7</td>
<td>&lt;10</td>
<td>STOT RE 1, H372 (lungs) (inhalation)</td>
<td>[1] [2]</td>
</tr>
<tr>
<td>cristobalite</td>
<td>EC: 238-455-4 CAS: 14464-46-1</td>
<td>&lt;10</td>
<td>STOT RE 1, H372 (lungs) (inhalation)</td>
<td>[1] [2]</td>
</tr>
</tbody>
</table>
SECTION 3: Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type
[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[5] Substance of equivalent concern
[6] Additional disclosure due to company policy
[*] Substance
[A] Constituent
[B] Impurity
[C] Stabilising additive

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

- **Gas Clean Filter Hydrocarbon**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- **Gas Clean Filter Oxygen**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- **Gas Clean Filter Moisture**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.

Inhalation

- **Gas Clean Filter Hydrocarbon**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- **Gas Clean Filter Oxygen**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- **Gas Clean Filter Moisture**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

- **Gas Clean Filter Hydrocarbon**: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- **Gas Clean Filter Oxygen**: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- **Gas Clean Filter Moisture**: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
SECTION 4: First aid measures

**Ingestion**
- **Gas Clean Filter Hydrocarbon**
  - Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

- **Gas Clean Filter Oxygen**
  - Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

- **Gas Clean Filter Moisture**
  - Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Protection of first-aiders**
- **Gas Clean Filter Hydrocarbon**
  - No action shall be taken involving any personal risk or without suitable training.

- **Gas Clean Filter Oxygen**
  - No action shall be taken involving any personal risk or without suitable training.

- **Gas Clean Filter Moisture**
  - No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

**4.2 Most important symptoms and effects, both acute and delayed**

**Potential acute health effects**

**Eye contact**
- **Gas Clean Filter Hydrocarbon**
  - No known significant effects or critical hazards.

- **Gas Clean Filter Oxygen**
  - No known significant effects or critical hazards.

- **Gas Clean Filter Moisture**
  - No known significant effects or critical hazards.

**Inhalation**
- **Gas Clean Filter Hydrocarbon**
  - Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

- **Gas Clean Filter Oxygen**
  - No known significant effects or critical hazards.

- **Gas Clean Filter Moisture**
  - No known significant effects or critical hazards.

**Skin contact**
- **Gas Clean Filter Hydrocarbon**
  - No known significant effects or critical hazards.

- **Gas Clean Filter Oxygen**
  - No known significant effects or critical hazards.

- **Gas Clean Filter Moisture**
  - No known significant effects or critical hazards.

**Ingestion**
- **Gas Clean Filter Hydrocarbon**
  - No known significant effects or critical hazards.

- **Gas Clean Filter Oxygen**
  - No known significant effects or critical hazards.

- **Gas Clean Filter Moisture**
  - No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

**Eye contact**
- **Gas Clean Filter Hydrocarbon**
  - Adverse symptoms may include the following:
    - Irritation
    - Redness

- **Gas Clean Filter Oxygen**
  - No specific data.

- **Gas Clean Filter Moisture**
  - No specific data.
SECTION 4: First aid measures

### Inhalation

<table>
<thead>
<tr>
<th>Substance</th>
<th>Gas Clean Filter Hydrocarbon</th>
<th>Gas Clean Filter Oxygen</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adverse symptoms</td>
<td>respiratory tract irritation</td>
<td>coughing</td>
<td></td>
</tr>
</tbody>
</table>

### Skin contact

<table>
<thead>
<tr>
<th>Substance</th>
<th>Gas Clean Filter Hydrocarbon</th>
<th>Gas Clean Filter Oxygen</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adverse symptoms</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Ingestion

<table>
<thead>
<tr>
<th>Substance</th>
<th>Gas Clean Filter Hydrocarbon</th>
<th>Gas Clean Filter Oxygen</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adverse symptoms</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 4.3 Indication of any immediate medical attention and special treatment needed

#### Notes to physician

<table>
<thead>
<tr>
<th>Substance</th>
<th>Gas Clean Filter Hydrocarbon</th>
<th>Gas Clean Filter Oxygen</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatment</td>
<td>Treat symptomatically.</td>
<td>Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
</tbody>
</table>

#### Specific treatments

<table>
<thead>
<tr>
<th>Substance</th>
<th>Gas Clean Filter Hydrocarbon</th>
<th>Gas Clean Filter Oxygen</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific treatment</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

<table>
<thead>
<tr>
<th>Substance</th>
<th>Gas Clean Filter Hydrocarbon</th>
<th>Gas Clean Filter Oxygen</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extinguishing media</td>
<td>Use dry chemical powder.</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
</tr>
</tbody>
</table>

#### Unsuitable extinguishing media

<table>
<thead>
<tr>
<th>Substance</th>
<th>Gas Clean Filter Hydrocarbon</th>
<th>Gas Clean Filter Oxygen</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extinguishing media</td>
<td>None known.</td>
<td>None known.</td>
<td></td>
</tr>
</tbody>
</table>

### 5.2 Special hazards arising from the substance or mixture

#### Hazards from the substance or mixture

<table>
<thead>
<tr>
<th>Substance</th>
<th>Gas Clean Filter Hydrocarbon</th>
<th>Gas Clean Filter Oxygen</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard</td>
<td>May form explosible dust-air mixture if dispersed.</td>
<td>No specific fire or explosion hazard.</td>
<td>No specific fire or explosion hazard.</td>
</tr>
</tbody>
</table>

#### Hazardous combustion products

<table>
<thead>
<tr>
<th>Substance</th>
<th>Gas Clean Filter Hydrocarbon</th>
<th>Gas Clean Filter Oxygen</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decomposition</td>
<td>Decomposition products may include the following materials: carbon dioxide</td>
<td>Decomposition products may include the following materials: metal oxide/oxides</td>
<td>Decomposition products may include the following materials: metal oxide/oxides</td>
</tr>
</tbody>
</table>

### 5.3 Advice for firefighters
SECTION 5: Firefighting measures

Special precautions for fire-fighters:
- Gas Clean Filter Hydrocarbon: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Gas Clean Filter Oxygen: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Gas Clean Filter Moisture: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters:
- Gas Clean Filter Hydrocarbon: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
- Gas Clean Filter Oxygen: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
- Gas Clean Filter Moisture: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:
- Gas Clean Filter Hydrocarbon: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.
- Gas Clean Filter Oxygen: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill material. Put on appropriate personal protective equipment.
- Gas Clean Filter Moisture: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:
- Gas Clean Filter Hydrocarbon: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Gas Clean Filter Oxygen: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Gas Clean Filter Moisture: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
SECTION 6: Accidental release measures

6.2 Environmental precautions

Gas Clean Filter Hydrocarbon
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Gas Clean Filter Oxygen
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Gas Clean Filter Moisture
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Gas Clean Filter Hydrocarbon
Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

Gas Clean Filter Oxygen
Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

Gas Clean Filter Moisture
Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Gas Clean Filter Hydrocarbon
Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.

Gas Clean Filter Oxygen
Put on appropriate personal protective equipment (see Section 8).

Gas Clean Filter Moisture
Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
SECTION 7: Handling and storage

Advice on general occupational hygiene

Gas Clean Filter Hydrocarbon
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Gas Clean Filter Oxygen
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Gas Clean Filter Moisture
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Gas Clean Filter Hydrocarbon
Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Gas Clean Filter Oxygen
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Gas Clean Filter Moisture
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations

Gas Clean Filter Hydrocarbon
Industrial applications, Professional applications.

Gas Clean Filter Oxygen
Industrial applications, Professional applications.

Gas Clean Filter Moisture
Industrial applications, Professional applications.
SECTION 7: Handling and storage

**Industrial sector specific solutions**

- Gas Clean Filter Hydrocarbon: Not available.
- Gas Clean Filter Oxygen: Not available.
- Gas Clean Filter Moisture: Not available.

SECTION 8: Exposure controls/personal protection

Since the hazardous ingredient in this article is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

### 8.1 Control parameters

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Exposure limit values</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gas Clean Filter Oxygen</strong></td>
<td></td>
</tr>
<tr>
<td>aluminium oxide</td>
<td>EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m³ 8 hours. Form: inhalable dust TWA: 4 mg/m³ 8 hours. Form: respirable dust</td>
</tr>
<tr>
<td>Copper oxide, Activated</td>
<td>EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 2 mg/m³, (as Cu) 15 minutes. Form: Dusts and Mists TWA: 1 mg/m³, (as Cu) 8 hours. Form: Dusts and Mists</td>
</tr>
<tr>
<td>Manganese dioxide</td>
<td>EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 0.2 mg/m³, (as Mn) 8 hours. Form: Inhalable fraction TWA: 0.05 mg/m³, (as Mn) 8 hours. Form: Respirable fraction</td>
</tr>
<tr>
<td><strong>Gas Clean Filter Moisture</strong></td>
<td></td>
</tr>
<tr>
<td>crystalline silica, respirable powder</td>
<td>EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 0.1 mg/m³ 8 hours. Form: Respirable fraction</td>
</tr>
<tr>
<td>cristobalite</td>
<td>EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 0.1 mg/m³ 8 hours. Form: Respirable fraction</td>
</tr>
</tbody>
</table>

**Recommended monitoring procedures**: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**DNELs/DMELs**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Type</th>
<th>Exposure</th>
<th>Value</th>
<th>Population</th>
<th>Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gas Clean Filter Hydrocarbon</strong></td>
<td>DNEL</td>
<td>Long term Inhalation</td>
<td>2.5 mg/m³</td>
<td>General population</td>
<td>Systemic</td>
</tr>
<tr>
<td>carbon</td>
<td>DNEL</td>
<td>Long term Inhalation</td>
<td>10 mg/m³</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Long term Oral</td>
<td>859 mg/kg bw/day</td>
<td>General population</td>
<td>Systemic</td>
</tr>
<tr>
<td><strong>Gas Clean Filter Oxygen</strong></td>
<td>DNEL</td>
<td>Long term Dermal</td>
<td>0.0021 mg/kg bw/day</td>
<td>General population</td>
<td>Systemic</td>
</tr>
<tr>
<td>Manganese dioxide</td>
<td>DNEL</td>
<td>Long term Dermal</td>
<td>0.00414 mg/kg bw/day</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Long term Inhalation</td>
<td>0.043 mg/m³</td>
<td>General population</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Long term Inhalation</td>
<td>0.2 mg/m³</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
</tbody>
</table>

Date of issue/Date of revision: 09/11/2021  Date of previous issue: 25/09/2018  Version: 3
PNECs
No PNECs available

8.2 Exposure controls
Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures
Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection
Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties
The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance
Physical state: Gas Clean Filter Hydrocarbon Solid. [Powder.]
Gas Clean Filter Oxygen Solid. [Granular solid.]
Gas Clean Filter Moisture Solid. [Granular solid.]

Colour: Gas Clean Filter Hydrocarbon Black.
Gas Clean Filter Oxygen Brown. [Dark]
Gas Clean Filter Moisture Tan.
### SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Hydrocarbon</th>
<th>Oxygen</th>
<th>Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Odour</strong></td>
<td>None</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Odour threshold</strong></td>
<td>Not available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Melting point/freezing point</strong></td>
<td>3652°C</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range</strong></td>
<td>Not available.</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not available.</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
<td>Not applicable.</td>
<td></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>Not applicable.</td>
<td></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
<td>452°C (845.6°F)</td>
<td>Not available.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>Not available.</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>Not available.</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Not applicable.</td>
<td></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Solubility(ies)</strong></td>
<td>Insoluble in the following materials: cold water and hot water.</td>
<td>Insoluble in the following materials: cold water and hot water.</td>
<td>Insoluble in the following materials: cold water and hot water.</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>Not applicable.</td>
<td></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>Not available.</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not applicable.</td>
<td></td>
<td>Not available.</td>
</tr>
</tbody>
</table>
## SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative density: Gas Clean Filter Hydrocarbon</td>
<td>1.9 to 2.2</td>
</tr>
<tr>
<td>Relative density: Gas Clean Filter Oxygen</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density: Gas Clean Filter Moisture</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour density: Gas Clean Filter Hydrocarbon</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapour density: Gas Clean Filter Oxygen</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapour density: Gas Clean Filter Moisture</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Explosive properties: Gas Clean Filter Hydrocarbon</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive properties: Gas Clean Filter Oxygen</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive properties: Gas Clean Filter Moisture</td>
<td>Not available.</td>
</tr>
<tr>
<td>Oxidising properties: Gas Clean Filter Hydrocarbon</td>
<td>Not available.</td>
</tr>
<tr>
<td>Oxidising properties: Gas Clean Filter Oxygen</td>
<td>Not available.</td>
</tr>
<tr>
<td>Oxidising properties: Gas Clean Filter Moisture</td>
<td>Not available.</td>
</tr>
<tr>
<td>Particle characteristics: Median particle size: Gas Clean Filter Hydrocarbon</td>
<td>Not available.</td>
</tr>
<tr>
<td>Particle characteristics: Median particle size: Gas Clean Filter Oxygen</td>
<td>Not available.</td>
</tr>
<tr>
<td>Particle characteristics: Median particle size: Gas Clean Filter Moisture</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### 9.2 Other information
No additional information.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity
- Gas Clean Filter Hydrocarbon: No specific test data related to reactivity available for this product or its ingredients.
- Gas Clean Filter Oxygen: No specific test data related to reactivity available for this product or its ingredients.
- Gas Clean Filter Moisture: No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability
- Gas Clean Filter Hydrocarbon: The product is stable.
- Gas Clean Filter Oxygen: The product is stable.
- Gas Clean Filter Moisture: The product is stable.

### 10.3 Possibility of hazardous reactions
- Gas Clean Filter Hydrocarbon: Under normal conditions of storage and use, hazardous reactions will not occur.
- Gas Clean Filter Oxygen: Under normal conditions of storage and use, hazardous reactions will not occur.
- Gas Clean Filter Moisture: Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to avoid
- Gas Clean Filter Hydrocarbon: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.
- Gas Clean Filter Oxygen: No specific data.
- Gas Clean Filter Moisture: No specific data.

### 10.5 Incompatible materials
- Gas Clean Filter Hydrocarbon: Reactive or incompatible with the following materials: oxidising materials.
- Gas Clean Filter Oxygen: May react or be incompatible with oxidising materials.
- Gas Clean Filter Moisture: May react or be incompatible with oxidising materials.
SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products:
- Gas Clean Filter Hydrocarbon: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Gas Clean Filter Oxygen: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Gas Clean Filter Moisture: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

**Acute toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Clean Filter Hydrocarbon</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;10000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Gas Clean Filter Oxygen Copper oxide, Activated</td>
<td>LD50 Dermal</td>
<td>Rat - Male, Female</td>
<td>&gt;2000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Manganese dioxide</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>470 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Manganese dioxide</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>3478 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

**Acute toxicity estimates**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Oral (mg/kg)</th>
<th>Dermal (mg/kg)</th>
<th>Inhalation (gases) (ppm)</th>
<th>Inhalation (vapours) (mg/l)</th>
<th>Inhalation (dusts and mists) (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Clean Filter Oxygen Manganese dioxide</td>
<td>500</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>1.5</td>
</tr>
</tbody>
</table>

**Irritation/Corrosion**

| Conclusion/Summary | Not available. |

**Sensitiser**

| Skin | Gas Clean Filter Oxygen: May cause sensitisation by skin contact. |

**Mutagenicity**

| Conclusion/Summary | Not available. |

**Carcinogenicity**

| Conclusion/Summary | Not available. |

**Reproductive toxicity**

| Conclusion/Summary | Not available. |

**Teratogenicity**

| Conclusion/Summary | Not available. |

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Clean Filter Moisture crystalline silica, respirable powder cristobalite</td>
<td>Category 1</td>
<td>inhalation</td>
<td>lungs</td>
</tr>
<tr>
<td>Gas Clean Filter Moisture cristobalite</td>
<td>Category 1</td>
<td>inhalation</td>
<td>lungs</td>
</tr>
</tbody>
</table>

**Aspiration hazard**

Not available.
# SECTION 11: Toxicological information

<table>
<thead>
<tr>
<th>Information on likely routes of exposure</th>
<th>Gas Clean Filter Hydrocarbon</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Gas Clean Filter Oxygen</td>
<td>Routes of entry anticipated: Oral, Dermal, Inhalation.</td>
</tr>
<tr>
<td></td>
<td>Gas Clean Filter Moisture</td>
<td>Routes of entry anticipated: Oral, Dermal, Inhalation.</td>
</tr>
</tbody>
</table>

## Potential acute health effects

### Inhalation

Gas Clean Filter Hydrocarbon:
- Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

Gas Clean Filter Oxygen:
- No known significant effects or critical hazards.

Gas Clean Filter Moisture:
- No known significant effects or critical hazards.

### Ingestion

Gas Clean Filter Hydrocarbon:
- No known significant effects or critical hazards.

Gas Clean Filter Oxygen:
- No known significant effects or critical hazards.

Gas Clean Filter Moisture:
- No known significant effects or critical hazards.

### Skin contact

Gas Clean Filter Hydrocarbon:
- No known significant effects or critical hazards.

Gas Clean Filter Oxygen:
- No known significant effects or critical hazards.

Gas Clean Filter Moisture:
- No known significant effects or critical hazards.

### Eye contact

Gas Clean Filter Hydrocarbon:
- Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

Gas Clean Filter Oxygen:
- No known significant effects or critical hazards.

Gas Clean Filter Moisture:
- No known significant effects or critical hazards.

## Symptoms related to the physical, chemical and toxicological characteristics

### Inhalation

Gas Clean Filter Hydrocarbon:
- Adverse symptoms may include the following:
  - respiratory tract irritation
  - coughing

Gas Clean Filter Oxygen:
- No specific data.

Gas Clean Filter Moisture:
- No specific data.

### Ingestion

Gas Clean Filter Hydrocarbon:
- No specific data.

Gas Clean Filter Oxygen:
- No specific data.

Gas Clean Filter Moisture:
- No specific data.

### Skin contact

Gas Clean Filter Hydrocarbon:
- No specific data.

Gas Clean Filter Oxygen:
- No specific data.

Gas Clean Filter Moisture:
- No specific data.

### Eye contact

Gas Clean Filter Hydrocarbon:
- Adverse symptoms may include the following:
  - irritation
  - redness

Gas Clean Filter Oxygen:
- No specific data.

Gas Clean Filter Moisture:
- No specific data.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

### Short term exposure

#### Potential immediate effects

- Not available.

#### Potential delayed effects

- Not available.

### Long term exposure

#### Potential immediate effects

- Not available.

#### Potential delayed effects

- Not available.

#### Potential chronic health effects
SECTION 11: Toxicological information

General:
- Gas Clean Filter Hydrocarbon: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
- Gas Clean Filter Oxygen: No known significant effects or critical hazards.
- Gas Clean Filter Moisture: May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity:
- Gas Clean Filter Hydrocarbon: No known significant effects or critical hazards.
- Gas Clean Filter Oxygen: No known significant effects or critical hazards.
- Gas Clean Filter Moisture: No known significant effects or critical hazards.

Mutagenicity:
- Gas Clean Filter Hydrocarbon: No known significant effects or critical hazards.
- Gas Clean Filter Oxygen: No known significant effects or critical hazards.
- Gas Clean Filter Moisture: No known significant effects or critical hazards.

Reproductive toxicity:
- Gas Clean Filter Hydrocarbon: No known significant effects or critical hazards.
- Gas Clean Filter Oxygen: No known significant effects or critical hazards.
- Gas Clean Filter Moisture: No known significant effects or critical hazards.

Other information:
- Gas Clean Filter Hydrocarbon: Not available.
- Gas Clean Filter Oxygen: Adverse symptoms may include the following: May cause skin sensitisation.
- Gas Clean Filter Moisture: Not available.

SECTION 12: Ecological information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Clean Filter Hydrocarbon</td>
<td>Acute LC50 1000 mg/l Fresh water</td>
<td>Fish - Danio rerio</td>
<td>96 hours</td>
</tr>
<tr>
<td>Gas Clean Filter Oxygen Copper oxide, Activated</td>
<td>Acute LC50 2.6 mg/l Fresh water</td>
<td>Daphnia - Daphnia magna - Neonate</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 &gt;56000 ppm Fresh water</td>
<td>Fish - Gambusia affinis - Adult</td>
<td>96 hours</td>
</tr>
<tr>
<td>Manganese dioxide</td>
<td>Acute EC50 &gt;100 mg/l Fresh water</td>
<td>Algae - Desmodesmus subspicatus</td>
<td>72 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 &gt;100 mg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute NOEC &gt;100 mg/l Fresh water</td>
<td>Fish - Oncorhynchus mykiss</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 10 mg/l Fresh water</td>
<td>Daphnia - Ceriodaphnia dubia</td>
<td>8 days</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient ($K_{oc}$): Not available.

Mobility: Not available.

12.5 Results of PBT and vPvB assessment
**SECTION 12: Ecological information**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>PBT</th>
<th>P</th>
<th>B</th>
<th>T</th>
<th>vPvB</th>
<th>vP</th>
<th>vB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Clean Filter Hydrocarbon</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Gas Clean Filter Hydrocarbon</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**12.6 Other adverse effects**: No known significant effects or critical hazards.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Product**

Methods of disposal:

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste**

Methods of disposal:

The classification of the product may meet the criteria for a hazardous waste.

**Packaging**

Methods of disposal:

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**

This Safety Data Sheet is written based on the encapsulated substance or mixture in this article. Since the hazardous ingredient is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

<table>
<thead>
<tr>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1 UN number</td>
<td>UN3077</td>
<td>UN3077</td>
</tr>
<tr>
<td>14.2 UN proper shipping name</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper oxide, Activated)</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper oxide, Activated)</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>Ⓥ</td>
<td>Ⓥ</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>Ⓥ</td>
<td>Ⓥ</td>
</tr>
<tr>
<td>14.5 Environmental hazards</td>
<td>Yes.</td>
<td>Yes.</td>
</tr>
</tbody>
</table>

**Additional information**
SECTION 14: Transport information

**ADR/RID**: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
- **Hazard identification number**: 90
- **Limited quantity**: 5 kg
- **Special provisions**: 274, 335, 601, 375
- **Tunnel code**: (-)

**IMDG**: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
- **Emergency schedules**: F-A, S-F
- **Special provisions**: 274, 335, 966, 967, 969

**IATA**: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.
- **Special provisions**: A97, A158, A179, A197, A215

**14.6 Special precautions for user**: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to IMO instruments**: Not available.

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU Regulation (EC) No. 1907/2006 (REACH)**

- **Annex XIV - List of substances subject to authorisation**
  - **Annex XIV**: None of the components are listed.
  - **Substances of very high concern**: None of the components are listed.

- **Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>EC number</th>
<th>CAS number</th>
<th>Restriction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Clean Filter Oxygen nickel monoxide</td>
<td>215-215-7</td>
<td>1313-99-1</td>
<td>28</td>
</tr>
</tbody>
</table>

**Label**: Gas Clean Filter Hydrocarbon, Gas Clean Filter Oxygen, Gas Clean Filter Moisture - Not applicable.

**Other EU regulations**

- **Ozone depleting substances (1005/2009/EU)**: Not listed.
- **Prior Informed Consent (PIC) (649/2012/EU)**: Not listed.
- **Persistent Organic Pollutants**: Not listed.
- **Seveso Directive**: This product is controlled under the Seveso Directive.
SECTION 15: Regulatory information

National regulations

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>List name</th>
<th>Name on list</th>
<th>Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gas Clean Filter Moisture</strong> Quartz (SiO2)</td>
<td>UK Occupational Exposure Limits EH40 - WEL</td>
<td>silica, respirable crystalline respirable fraction</td>
<td>Carc.</td>
<td>-</td>
</tr>
<tr>
<td>cristobalite</td>
<td>UK Occupational Exposure Limits EH40 - WEL</td>
<td>silica, respirable crystalline respirable fraction</td>
<td>Carc.</td>
<td>-</td>
</tr>
</tbody>
</table>

International regulations

**Chemical Weapon Convention List Schedules I, II & III Chemicals**
Not listed.

**Montreal Protocol**
Not listed.

**Stockholm Convention on Persistent Organic Pollutants**
Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)**
Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**
Not listed.

**Inventory list**

- **Australia**: All components are listed or exempted.
- **Canada**: Not determined.
- **China**: All components are listed or exempted.
- **Europe**: All components are listed or exempted.
- **Japan**: Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted.
- **New Zealand**: All components are listed or exempted.
- **Philippines**: Not determined.
- **Republic of Korea**: Not determined.
- **Taiwan**: All components are listed or exempted.
- **Thailand**: All components are listed or exempted.
- **Turkey**: Not determined.
- **United States**: All components are active or exempted.
- **Viet Nam**: Not determined.

**15.2 Chemical safety assessment**: This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

- Indicates information that has changed from previously issued version.

**Abbreviations and acronyms**

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number

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Gas Clean Filter FID Kit 1/8 in, Part Number CP736530

SECTION 16: Other information

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>STOT RE 2, H373</td>
</tr>
<tr>
<td></td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

Full text of abbreviated H statements

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Clean Filter Oxygen</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td></td>
<td>Harmful if inhaled.</td>
</tr>
<tr>
<td></td>
<td>Very toxic to aquatic life.</td>
</tr>
<tr>
<td></td>
<td>Very toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>Causes damage to organs through prolonged or repeated exposure.</td>
</tr>
<tr>
<td></td>
<td>May cause damage to organs through prolonged or repeated exposure.</td>
</tr>
</tbody>
</table>

Full text of classifications [CLP/GHS]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Clean Filter Oxygen</td>
<td>ACUTE TOXICITY - Category 4</td>
</tr>
<tr>
<td></td>
<td>SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1</td>
</tr>
<tr>
<td></td>
<td>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1</td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1</td>
</tr>
<tr>
<td></td>
<td>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2</td>
</tr>
</tbody>
</table>

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