SAFETY DATA SHEET
Gas Clean Filter Kit for TCD, Part Number CP738408

Section 1. Identification

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 Kit for TCD, Part Number CP738408
Part no. (chemical kit): CP738408
Part no.: Gas Clean Filter Oxygen CP17970
       Gas Clean Filter Moisture CP17971
Validation date: 11/9/2021

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

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer: Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

1.4 Emergency telephone number

In case of emergency: CHEMTREC®: 1-800-424-9300

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

OSHA/HCS status: Gas Clean Filter Oxygen This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
       Gas Clean Filter Moisture This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

Gas Clean Filter Oxygen
H332  ACUTE TOXICITY (inhalation) - Category 4
H317  SKIN SENSITIZATION - Category 1
H350  CARCINOGENICITY - Category 1A
H373  SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
H400  AQUATIC HAZARD (ACUTE) - Category 1
H411  AQUATIC HAZARD (LONG-TERM) - Category 2

Gas Clean Filter Moisture
H350  CARCINOGENICITY - Category 1A
H372  SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

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

Date of issue: 11/09/2021
Section 2. Hazards identification

Gas Clean Filter Kit for TCD, Part Number CP738408

2.2 GHS label elements

Hazard pictograms

Gas Clean Filter Oxygen

Gas Clean Filter Moisture

Signal word

Gas Clean Filter Oxygen: Danger
Gas Clean Filter Moisture: Danger

Hazard statements

Gas Clean Filter Oxygen:
H317 - May cause an allergic skin reaction.
H332 - Harmful if inhaled.
H350 - May cause cancer.
H373 - May cause damage to organs through prolonged or repeated exposure. (brain)
H400 - Very toxic to aquatic life.
H411 - Toxic to aquatic life with long lasting effects.

Gas Clean Filter Moisture:
H350 - May cause cancer.
H372 - Causes damage to organs through prolonged or repeated exposure. (lungs)

Precautionary statements

Prevention

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:
P201 - Obtain special instructions before use.
P280 - Wear protective gloves, protective clothing and eye or face protection.
P260 - Do not breathe dust.
P270 - Do not eat, drink or smoke when using this product.

Response

Gas Clean Filter Oxygen:
P391 - Collect spillage.
P308 + P313 - IF exposed or concerned: Get medical advice or attention.
P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
P363 - Wash contaminated clothing before reuse.
P302 + P352 - IF ON SKIN: Wash with plenty of water.
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.

Gas Clean Filter Moisture:
P308 + P313 - IF exposed or concerned: Get medical advice or attention.

Storage

Gas Clean Filter Oxygen: Not applicable.
Gas Clean Filter Moisture: Not applicable.

Date of issue: 11/09/2021
Section 2. Hazards identification

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Gas Clean Filter Oxygen</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supplemental label elements</td>
<td>None known.</td>
<td>None known.</td>
</tr>
<tr>
<td>2.3 Other hazards</td>
<td>None known.</td>
<td>None known.</td>
</tr>
</tbody>
</table>

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.

### Ingredient name

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Clean Filter Oxygen</td>
<td>Copper oxide, Activated</td>
<td>≤10</td>
<td>1317-38-0</td>
</tr>
<tr>
<td></td>
<td>Manganese dioxide</td>
<td>≤10</td>
<td>1313-13-9</td>
</tr>
<tr>
<td></td>
<td>nickel monoxide</td>
<td>&lt;1</td>
<td>1313-99-1</td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>crystalline silica, respirable powder</td>
<td>≤10</td>
<td>14808-60-7</td>
</tr>
<tr>
<td></td>
<td>cristobalite</td>
<td>≤10</td>
<td>14464-46-1</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

4.1 Description of necessary first aid measures

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>Gas Clean Filter Oxygen</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>Gas Clean Filter Moisture</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>Gas Clean Filter Oxygen</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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</td>
</tr>
</tbody>
</table>

Date of issue: 11/09/2021
Section 4. First aid measures

Gas Clean Filter Kit for TCD, Part Number CP738408

Gas Clean Filter Oxygen

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. 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.

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. 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 Oxygen

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Gas Clean Filter Moisture

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: Gas Clean Filter Oxygen

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. 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.

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. 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.

Date of issue: 11/09/2021
4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

<table>
<thead>
<tr>
<th></th>
<th>Gas Clean Filter Oxygen</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td>Harmful if inhaled.</td>
<td></td>
</tr>
<tr>
<td>Skin contact</td>
<td>May cause an allergic skin reaction.</td>
<td></td>
</tr>
<tr>
<td>Ingestion</td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
</tbody>
</table>

Over-exposure signs/symptoms

<table>
<thead>
<tr>
<th></th>
<th>Gas Clean Filter Oxygen</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>No specific data.</td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td>No specific data.</td>
<td></td>
</tr>
<tr>
<td>Skin contact</td>
<td>Adverse symptoms may include the following: irritation redness</td>
<td></td>
</tr>
<tr>
<td>Ingestion</td>
<td>No specific data.</td>
<td></td>
</tr>
</tbody>
</table>

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

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

Specific treatments

<table>
<thead>
<tr>
<th></th>
<th>Gas Clean Filter Oxygen</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No specific treatment.</td>
<td></td>
</tr>
</tbody>
</table>

Protection of first-aiders

<table>
<thead>
<tr>
<th></th>
<th>Gas Clean Filter Oxygen</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.</td>
<td></td>
</tr>
</tbody>
</table>

See toxicological information (Section 11)
Section 5. Fire-fighting measures

5.1 Extinguishing media

| Suitable extinguishing media | Gas Clean Filter Oxygen | Use an extinguishing agent suitable for the surrounding fire. |
| Gas Clean Filter Moisture | Use an extinguishing agent suitable for the surrounding fire. |

| Unsuitable extinguishing media | Gas Clean Filter Oxygen | None known. |
| Gas Clean Filter Moisture | None known. |

5.2 Special hazards arising from the substance or mixture

| Specific hazards arising from the chemical | Gas Clean Filter Oxygen | This material is very toxic to aquatic life. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| Gas Clean Filter Moisture | No specific fire or explosion hazard. |

| Hazardous thermal decomposition products | Gas Clean Filter Oxygen | Decomposition products may include the following materials: metal oxide/oxides |
| Gas Clean Filter Moisture | Decomposition products may include the following materials: metal oxide/oxides |

5.3 Advice for firefighters

| Special protective actions for fire-fighters | 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 Oxygen | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| 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. |

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| For non-emergency personnel | 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 spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 spilled material. Provide adequate ventilation. Wear appropriate respirator |
Section 6. Accidental release measures

For emergency responders: Gas Clean Filter Oxygen

6.2 Environmental precautions:

Gas Clean Filter Oxygen

Avoid dispersal of spilled 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Gas Clean Filter Moisture

Avoid dispersal of spilled 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 materials for containment and cleaning up

Methods for cleaning up:

For emergency responders:

Gas Clean Filter Oxygen

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. Place spilled material in a designated, labeled 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.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures:

Gas Clean Filter Oxygen

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.

Gas Clean Filter Moisture

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all
### Section 7. Handling and storage

**Advice on general occupational hygiene**

- **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**

- **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. Store locked up. 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 unlabeled 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. Store locked up. 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 unlabeled 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 Oxygen**: Industrial applications, Professional applications.
- **Gas Clean Filter Moisture**: Industrial applications, Professional applications.

**Industrial sector specific solutions**

- **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>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gas Clean Filter Oxygen</strong></td>
<td></td>
</tr>
<tr>
<td>Copper oxide, Activated</td>
<td></td>
</tr>
<tr>
<td><strong>Manganese dioxide</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>nickel monoxide</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Gas Clean Filter Moisture</strong></td>
<td></td>
</tr>
<tr>
<td>crystalline silica, respirable powder</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>cristobalite</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Date of issue

11/09/2021
### Section 8. Exposure controls/personal protection

**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.

**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.

**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. Contaminated work clothing should not be allowed out of the workplace. 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.

---

**TWA:** 30 mg/m³ / 2 x (%SiO₂+2) 8 hours. Form: Total dust  
**OSHA PEL 1989 (United States, 3/1989).**  
**TWA:** 0.05 mg/m³, (as quartz) 8 hours. Form: Respirable dust  
**OSHA PEL (United States, 5/2018).**  
**TWA:** 50 µg/m³ 8 hours. Form: Respirable dust  
**ACGIH TLV (United States, 1/2021).**  
**TWA:** 0.025 mg/m³ 8 hours. Form: Respirable fraction  
**NIOSH REL (United States, 10/2020).**  
**TWA:** 0.05 mg/m³ 10 hours. Form: respirable dust
**Section 9. Physical and chemical properties and safety characteristics**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<table>
<thead>
<tr>
<th>Property</th>
<th>Gas Clean Filter Oxygen</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td></td>
<td>Not available.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Boiling point, initial boiling point, and boiling range</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable.</td>
<td>Closed cup: &gt;535°C (&gt;995°F)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Lower and upper explosion limit/flammability limit</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative vapor density</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility</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>Partition coefficient: n-octanol/water</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Particle characteristics</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median particle size</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
Section 10. Stability and reactivity

10.1 Reactivity

: 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 Oxygen
The product is stable.

: Gas Clean Filter Moisture
The product is stable.

10.3 Possibility of hazardous reactions

: 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.

10.4 Conditions to avoid

: Gas Clean Filter Oxygen
No specific data.

: Gas Clean Filter Moisture
No specific data.

10.5 Incompatible materials

: Gas Clean Filter Oxygen
May react or be incompatible with oxidizing materials.

: Gas Clean Filter Moisture
May react or be incompatible with oxidizing materials.

10.6 Hazardous decomposition products

: 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 Oxygen</td>
<td>LD50 Dermal</td>
<td>Rat - Male, Female</td>
<td>&gt;2000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Copper oxide, Activated</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>
<tr>
<td>nickel monoxide</td>
<td>LC50 Inhalation Dusts and mists</td>
<td>Rat - Male, Female</td>
<td>&gt;5.08 mg/l</td>
<td>4 hours</td>
</tr>
</tbody>
</table>

Irritation/Corrosion
Not available.

Sensitization
Not available.

Conclusion/Summary Skin

: Gas Clean Filter Oxygen: May cause sensitization by skin contact.

Mutagenicity

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Date of issue : 11/09/2021
Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>OSHA</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Clean Filter Oxygen</td>
<td>-</td>
<td>1</td>
<td>Known to be a human carcinogen.</td>
</tr>
<tr>
<td>Manganese dioxide</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nickel monoxide</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>-</td>
<td>1</td>
<td>Known to be a human carcinogen.</td>
</tr>
<tr>
<td>Crystalline silica, respirable powder</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cristobalite</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Clean Filter Oxygen</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manganese dioxide</td>
<td>Category 2</td>
<td>inhalation</td>
<td>brain</td>
</tr>
<tr>
<td>Nickel monoxide</td>
<td>Category 1</td>
<td>inhalation</td>
<td>lungs</td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crystalline silica, respirable powder</td>
<td>Category 1</td>
<td>inhalation</td>
<td>lungs</td>
</tr>
<tr>
<td>Cristobalite</td>
<td>Category 1</td>
<td>inhalation</td>
<td>lungs</td>
</tr>
</tbody>
</table>

**Aspiration hazard**

Not available.

**Information on the likely routes of exposure**

Gas Clean Filter Oxygen

Routes of entry anticipated: Oral, Dermal, Inhalation.

Gas Clean Filter Moisture

Routes of entry anticipated: Oral, Dermal, Inhalation.

**Potential acute health effects**

**Eye contact**

- 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 Oxygen
  - Harmful if inhaled.
- Gas Clean Filter Moisture
  - No known significant effects or critical hazards.

**Skin contact**

- Gas Clean Filter Oxygen
  - May cause an allergic skin reaction.
- Gas Clean Filter Moisture
  - No known significant effects or critical hazards.

**Ingestion**

- 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**

**Eye contact**

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

**Inhalation**

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

**Skin contact**

- Gas Clean Filter Oxygen
  - Adverse symptoms may include the following: irritation, redness.
- Gas Clean Filter Moisture
  - No specific data.

Date of issue: 11/09/2021
Section 11. Toxicological information

Ingestion:
- Gas Clean Filter Oxygen
- Gas Clean Filter Moisture

Gas Clean Filter Oxygen:
- No specific data.

Gas Clean Filter Moisture:
- No specific data.

Delayed and immediate effects and also 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

General:
- Gas Clean Filter Oxygen
- Gas Clean Filter Moisture

Gas Clean Filter Oxygen:
- May cause cancer. Risk of cancer depends on duration and level of exposure.

Gas Clean Filter Moisture:
- May cause cancer. Risk of cancer depends on duration and level of exposure.

Carcinogenicity:
- Gas Clean Filter Oxygen
- Gas Clean Filter Moisture

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 Oxygen
- Gas Clean Filter Moisture

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 Oxygen
- Gas Clean Filter Moisture

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

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

Numerical measures of toxicity

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 (vapors) (mg/l)</th>
<th>Inhalation (dusts and mists) (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Clean Filter Oxygen</td>
<td>4579.9</td>
<td>27472.5</td>
<td>N/A</td>
<td>N/A</td>
<td>1.6</td>
</tr>
<tr>
<td>Copper oxide, Activated</td>
<td>470</td>
<td>2500</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Manganese dioxide</td>
<td>3478</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Other information:
- Adverse symptoms may include the following: May cause skin sensitization.
- Not available.

Section 12. Ecological information

12.1 Toxicity

Date of issue: 11/09/2021
Section 12. Ecological information

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

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP\text{ow}</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gas Clean Filter Oxygen</strong></td>
<td>-</td>
<td>5613</td>
<td>high</td>
</tr>
<tr>
<td>nickel monoxide</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

<table>
<thead>
<tr>
<th>Soil/water partition coefficient (K\text{OC})</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>:</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

12.5 Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods

: The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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 spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Date of issue : 11/09/2021
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>DOT Classification</th>
<th>TDG Classification</th>
<th>Mexico Classification</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>Not regulated.</td>
<td>UN3077</td>
<td>UN3077</td>
<td>UN3077</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper oxide, Activated)</td>
<td>SUBSTANCIA SOLIDA POTENCIALMENTE PELIGROSA PARA EL MEDIO AMBIENTE, N.E. P. (Copper oxide, Activated)</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>Transport hazard class(es)</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Packing group</td>
<td>III</td>
<td>III</td>
<td>III</td>
<td>III</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>No.</td>
<td>Yes.</td>
<td>Yes.</td>
<td>Yes.</td>
</tr>
</tbody>
</table>

Additional information

TDG Classification:
Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark). Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail.

Explosive Limit and Limited Quantity Index 5

Special provisions 16, 99

Mexico Classification:
The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Special provisions 274, 331, 335

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

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.

Transport in bulk according to IMO instruments: Not available.

Date of issue: 11/09/2021
## Section 15. Regulatory information

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

#### U.S. Federal regulations

**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**Clean Water Act (CWA) 307:** Copper oxide, Activated; nickel monoxide  
**Clean Water Act (CWA) 311:** Sulphuric acid  
**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)**  
**Clean Air Act Section 602 Class I Substances** : Listed  
**Clean Air Act Section 602 Class II Substances** : Not listed  
**DEA List I Chemicals (Precursor Chemicals)** : Not listed  
**DEA List II Chemicals (Essential Chemicals)** : Not listed  
**SARA 302/304**

**SARA 302 TPQ:** Not determined  
**SARA 304 RQ:** 4000000 lbs / 1816000 kg  
**SARA 311/312**

**Classification:**  
**Gas Clean Filter Oxygen**  
ACUTE TOXICITY (inhalation) - Category 4  
SKIN SENSITIZATION - Category 1  
CARCINOGENICITY - Category 1A  
**Gas Clean Filter Moisture**  
CARCINOGENICITY - Category 1A  
**Composition/information on ingredients**

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>EHS</th>
<th>SARA 302 TPQ (lbs)</th>
<th>SARA 304 RQ (lbs)</th>
<th>SARA 302 TPQ (gallons)</th>
<th>SARA 304 RQ (gallons)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gas Clean Filter Oxygen</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulphuric acid</td>
<td>≤0.1</td>
<td>Yes</td>
<td>1000</td>
<td>1000</td>
<td>66.3</td>
<td>66.3</td>
</tr>
</tbody>
</table>

**SARA 313**

**Classification:**  
**Gas Clean Filter Oxygen**  
Copper oxide, Activated  
Manganese dioxide  
nickel monoxide  
**Gas Clean Filter Moisture**  
crystalline silica, respirable powder  
cristobalite  
CARCINOGENICITY - Category 1A  
**Composition/information on ingredients**

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gas Clean Filter Oxygen</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copper oxide, Activated</td>
<td>≤10</td>
<td>ACUTE TOXICITY (oral) - Category 4</td>
</tr>
<tr>
<td>Manganese dioxide</td>
<td>≤10</td>
<td>OXIDIZING SOLIDS - Category 3</td>
</tr>
<tr>
<td>nickel monoxide</td>
<td>&lt;1</td>
<td>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2</td>
</tr>
<tr>
<td><strong>Gas Clean Filter Moisture</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>crystalline silica, respirable powder</td>
<td>≤10</td>
<td>CARCINOGENICITY - Category 1A</td>
</tr>
<tr>
<td>cristobalite</td>
<td>≤10</td>
<td>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1</td>
</tr>
</tbody>
</table>

**Date of issue:** 11/09/2021
Section 15. Regulatory information

<table>
<thead>
<tr>
<th>Product name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form R - Reporting requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter Oxygen</td>
<td>1317-38-0</td>
<td>≤10</td>
</tr>
<tr>
<td>Copper oxide, Activated</td>
<td>1313-13-9</td>
<td>≤10</td>
</tr>
<tr>
<td>Manganese dioxide</td>
<td>1313-99-1</td>
<td>≤10</td>
</tr>
<tr>
<td>nickel monoxide</td>
<td></td>
<td>&lt;1</td>
</tr>
<tr>
<td><strong>Supplier notification</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter Oxygen</td>
<td>1317-38-0</td>
<td>≤10</td>
</tr>
<tr>
<td>Copper oxide, Activated</td>
<td>1313-13-9</td>
<td>≤10</td>
</tr>
<tr>
<td>Manganese dioxide</td>
<td>1313-99-1</td>
<td>≤10</td>
</tr>
<tr>
<td>nickel monoxide</td>
<td></td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

**State regulations**

**Massachusetts**
- The following components are listed: ALUMINUM OXIDE; SILICA, CRYSTALLINE, QUARTZ; QUARTZ; SILICA CRYSTALLINE QUARTZ; CRISTOBALITE DUST; CRISTOBALITE ASBESTOS

**New York**
- None of the components are listed.

**New Jersey**
- The following components are listed: ALUMINUM OXIDE; alpha-ALUMINA; COPPER compounds; SILICA, QUARTZ; QUARTZ (SiO2); SILICA, CRYSTALLINE-QUARTZ; SILICA, CRYSTALLINE; SILICA, CRISTOBALITE; CRISTOBALITE (SiO2); SILICA, CHRYSTALLINE-CRISTOBALITE; NICKEL OXIDE; NICKEL MONOXIDE

**Pennsylvania**
- The following components are listed: ALUMINUM OXIDE; COPPER COMPOUNDS; QUARTZ DUST; QUARTZ; CRISTOBALITE DUST; CRISTOBALITE; MANGANESE COMPOUNDS

**California Prop. 65**

⚠️ WARNING: This product can expose you to chemicals including Silica, crystalline, Silica, crystalline, Nickel oxide and Strong inorganic acid mists containing sulfuric acid, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>No significant risk level</th>
<th>Maximum acceptable dosage level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Clean Filter Oxygen</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Nickel oxide</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Strong inorganic acid mists containing sulfuric acid</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Silica, crystalline</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Silica, crystalline</td>
<td>-</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.

Date of issue: 11/09/2021
Section 15. Regulatory information

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.

Section 16. Other information

Procedure used to derive the classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Clean Filter Oxygen</td>
<td></td>
</tr>
<tr>
<td>ACUTE TOXICITY (inhalation) - Category 4</td>
<td>Calculation method</td>
</tr>
<tr>
<td>SKIN SENSITIZATION - Category 1</td>
<td>Calculation method</td>
</tr>
<tr>
<td>CARCINOGENICITY - Category 1A</td>
<td>Calculation method</td>
</tr>
<tr>
<td>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2</td>
<td>Calculation method</td>
</tr>
<tr>
<td>AQUATIC HAZARD (ACUTE) - Category 1</td>
<td>Calculation method</td>
</tr>
<tr>
<td>AQUATIC HAZARD (LONG-TERM) - Category 2</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td></td>
</tr>
<tr>
<td>CARCINOGENICITY - Category 1A</td>
<td>Calculation method</td>
</tr>
<tr>
<td>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

History

Date of issue : 11/09/2021
Date of previous issue : 09/25/2018
Version : 5
Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973
as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
UN = United Nations

⚠️ Indicates information that has changed from previously issued version.

Notice to reader

Disclaimer: The information contained in this document is based on Agilent’s state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.