SAFETY DATA SHEET

CO2 Filter Kit with 1/4 in Connections, Part Number CP17982

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: CO2 Filter Kit with 1/4 in Connections, Part Number CP17982
Part no. (chemical kit): CP17982
Part no. (reagents kit):
Gas Clean Filter CO2: CP17969
Gas Clean Filter Moisture: CP17971

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

Material uses:
Reagents and Standards for Analytical Chemistry Laboratory Use
Gas Clean Filter CO2: 1 x 200 ml
Gas Clean Filter Moisture: 1 x 200 ml

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000
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:
Gas Clean Filter CO2: 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 CO2
H314: SKIN CORROSION/IRRITATION - Category 1
H412: LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

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

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CO2 Filter Kit with 1/4 in Connections, Part Number CP17982

SECTION 2: Hazards identification

**Ingredients of unknown toxicity**
- Gas Clean Filter CO2
- Gas Clean Filter Moisture

**Ingredients of unknown ecotoxicity**
- Gas Clean Filter Moisture

See Section 11 for more detailed information on health effects and symptoms.

See Section 16 for the full text of the H statements declared above.

### 2.2 Label elements

**Hazard pictograms**
- Gas Clean Filter CO2
- Gas Clean Filter Moisture

**Signal word**
- Gas Clean Filter CO2: Danger
- Gas Clean Filter Moisture: Warning

**Hazard statements**
- Gas Clean Filter CO2:
  - H314 - Causes severe skin burns and eye damage.
  - H412 - Harmful to aquatic life with long lasting effects.
- Gas Clean Filter Moisture:
  - H373 - May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

**Prevention**
- Gas Clean Filter CO2:
  - P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection: Recommended: Tightly-fitting goggles.
  - P273 - Avoid release to the environment.
- Gas Clean Filter Moisture:
  - P260 - Do not breathe dust.

**Response**
- Gas Clean Filter CO2:
  - P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.
  - P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.
  - P303 + P361 + P353 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or physician.
  - P305 + P310 - IF IN EYES: Immediately call a POISON CENTER or physician.
- Gas Clean Filter Moisture:
  - P314 - Get medical attention if you feel unwell.

**Storage**
- Gas Clean Filter CO2:
  - P405 - Store locked up.
- Gas Clean Filter Moisture:
  - Not applicable.

**Disposal**
- Gas Clean Filter CO2:
  - P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Gas Clean Filter Moisture:
  - P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients**
- Gas Clean Filter CO2:
  - Calcium dihydroxide
  - Sodium hydroxide
- Gas Clean Filter Moisture:
  - Crystalline silica, respirable powder
  - Cristobalite

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CO2 Filter Kit with 1/4 in Connections, Part Number CP17982

SECTION 2: Hazards identification

Supplemental label elements:
- Gas Clean Filter CO2: Not applicable.
- Gas Clean Filter Moisture: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:
- Gas Clean Filter CO2: Not applicable.
- Gas Clean Filter Moisture: Not applicable.

Special packaging requirements:
- Tactile warning of danger:
  - Gas Clean Filter CO2: Not applicable.
  - Gas Clean Filter Moisture: Not applicable.

2.3 Other hazards

Other hazards which do not result in classification:
- Gas Clean Filter CO2: Causes digestive tract burns.
- 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

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%/Index</th>
<th>Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Clean Filter CO2</td>
<td>Calcium dihydroxide</td>
<td>≥75 - ≤90</td>
<td>Skin Irrit. 2, H315&lt;br&gt;Eye Dam. 1, H318&lt;br&gt;Aquatic Chronic 3, H412&lt;br&gt;EUH071&lt;br&gt;Skin Corr. 1A, H314</td>
<td>[1][2]</td>
</tr>
<tr>
<td></td>
<td>EC: 215-137-3&lt;br&gt;CAS: 1305-62-6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>EC: 215-185-5&lt;br&gt;CAS: 1310-73-2&lt;br&gt;Index: 011-002-00-6</td>
<td>≤5</td>
<td>Skin Corr. 1A, H314&lt;br&gt;Eye Dam. 1, H318&lt;br&gt;Aquatic Chronic 3, H412&lt;br&gt;EUH071&lt;br&gt;Skin Corr. 1A, H314</td>
<td>[1][2]</td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>crystalline silica, respirable powder</td>
<td>&lt;10</td>
<td>STOT RE 1, H372 (lungs)&lt;br&gt;(inhalation)&lt;br&gt;STOT RE 1, H372 (lungs)&lt;br&gt;STOT RE 1, H372 (lungs)&lt;br&gt;(inhalation)</td>
<td>[1][2]</td>
</tr>
<tr>
<td></td>
<td>EC: 238-878-4&lt;br&gt;CAS: 14808-60-7</td>
<td></td>
<td>See Section 16 for the full text of the H statements declared above.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EC: 238-455-4&lt;br&gt;CAS: 14464-46-1</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment 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

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## SECTION 4: First aid measures

4.1 Description of first aid measures

<table>
<thead>
<tr>
<th>Condition</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></td>
<td><strong>CO2 Filter CO2</strong>&lt;br&gt;Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.</td>
</tr>
<tr>
<td></td>
<td><strong>Gas Clean Filter Moisture</strong>&lt;br&gt;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.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td><strong>CO2 Filter CO2</strong>&lt;br&gt;Get medical attention immediately. Call a poison center or physician. 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 person providing aid to give mouth-to-mouth resuscitation. 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.</td>
</tr>
<tr>
<td></td>
<td><strong>Gas Clean Filter Moisture</strong>&lt;br&gt;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.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td><strong>CO2 Filter CO2</strong>&lt;br&gt;Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.</td>
</tr>
<tr>
<td></td>
<td><strong>Gas Clean Filter Moisture</strong>&lt;br&gt;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.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td><strong>CO2 Filter CO2</strong>&lt;br&gt;Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Chemical burns must be treated promptly by a physician. 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.</td>
</tr>
<tr>
<td></td>
<td><strong>Gas Clean Filter Moisture</strong>&lt;br&gt;Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Chemical burns must be treated promptly by a physician. 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.</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

Gas Clean Filter Moisture
Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 CO2
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.

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 CO2
Causes serious eye damage.
Gas Clean Filter Moisture
No known significant effects or critical hazards.

Inhalation:
Gas Clean Filter CO2
No known significant effects or critical hazards.
Gas Clean Filter Moisture
No known significant effects or critical hazards.

Skin contact:
Gas Clean Filter CO2
Causes severe burns.
Gas Clean Filter Moisture
No known significant effects or critical hazards.

Ingestion:
Gas Clean Filter CO2
Corrosive to the digestive tract. Causes burns.
Gas Clean Filter Moisture
No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact:
Gas Clean Filter CO2
Adverse symptoms may include the following:
- pain
- watering
- redness
Gas Clean Filter Moisture
No specific data.

Inhalation:
Gas Clean Filter CO2
No specific data.
Gas Clean Filter Moisture
No specific data.

Skin contact:
Gas Clean Filter CO2
Adverse symptoms may include the following:
- pain or irritation
- redness
- blistering may occur
Gas Clean Filter Moisture
No specific data.

Ingestion:
Gas Clean Filter CO2
Adverse symptoms may include the following:
- stomach pains
Gas Clean Filter Moisture
No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician:
Gas Clean Filter CO2
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Gas Clean Filter Moisture
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
SECTION 4: First aid measures

Specific treatments
- Gas Clean Filter CO2: No specific treatment.
- Gas Clean Filter Moisture: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media
- Suitable extinguishing media: Gas Clean Filter CO2, Gas Clean Filter Moisture. Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media: Gas Clean Filter CO2, Gas Clean Filter Moisture. None known.

5.2 Special hazards arising from the substance or mixture
- Hazards from the substance or mixture: Gas Clean Filter CO2. This material is harmful 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.
- Hazards from the substance or mixture: Gas Clean Filter Moisture. No specific fire or explosion hazard.

- Hazardous combustion products: Gas Clean Filter CO2. Decomposition products may include the following materials: metal oxide/oxides.
- Hazardous combustion products: Gas Clean Filter Moisture. Decomposition products may include the following materials: metal oxide/oxides.

5.3 Advice for firefighters
- Special precautions for fire-fighters: Gas Clean Filter CO2. 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 precautions for fire-fighters: 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 CO2. 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.
- Special protective equipment for fire-fighters: 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 CO2. 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 split material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For non-emergency personnel: 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 split material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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SECTION 6: Accidental release measures

For emergency responders

Gas Clean Filter CO2
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".

6.2 Environmental precautions

Gas Clean Filter CO2
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). Water polluting material. May be harmful to the environment if released in large quantities.

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 CO2
Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. 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.

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 CO2
Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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). 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.

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SECTION 7: Handling and storage

Advice on general occupational hygiene

Gas Clean Filter CO2
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 CO2
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 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 CO2
Industrial applications, Professional applications.

Gas Clean Filter Moisture
Industrial applications, Professional applications.

7.4 First aid measures

Gas Clean Filter CO2
In the event of contact with skin, wash with plenty of water. In the event of contact with eyes, rinse continuously with water for several minutes. Get medical advice for all more serious cases. Wash hands thoroughly before eating, drinking and smoking.

Gas Clean Filter Moisture
In the event of contact with skin, wash with plenty of water. In the event of contact with eyes, rinse continuously with water for several minutes. Get medical advice for all more serious cases. Wash hands thoroughly before eating, drinking and smoking.

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>Gas Clean Filter CO2 Calcium dihydroxide</td>
<td>EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 5 mg/m³ 8 hours. EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 2 mg/m³ 15 minutes.</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter Moisture crystalline silica, respirable powder</td>
<td>EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 0.1 mg/m³ 8 hours. Form: respirable dust</td>
</tr>
<tr>
<td>cristobalite</td>
<td></td>
</tr>
</tbody>
</table>

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SECTION 8: Exposure controls/personal protection

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
No DNELs/DMELs available.

PNECs
No PNECs available

8.2 Exposure controls

Appropriate engineering controls

User operations generate dust, fumes, gas, vapour or mist, 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: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

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.

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Gas Clean Filter CO2</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colour</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter CO2</td>
<td>White. Violet.</td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>Tan.</td>
<td></td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter CO2</td>
<td>Characteristic.</td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Odour threshold</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter CO2</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter CO2</td>
<td>&gt;12 [Conc. (% w/w): 0.14%]</td>
<td>Not available.</td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Melting point/freezing point</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter CO2</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter CO2</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter CO2</td>
<td>Not available.</td>
<td>Closed cup: &gt;535°C</td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter CO2</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter CO2</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter CO2</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter CO2</td>
<td>2.3 kPa [room temperature]</td>
<td>Not available.</td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter CO2</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter CO2</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Solubility(ies)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter CO2</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>Gas Clean Filter Moisture</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter CO2</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter CO2</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Gas Clean Filter CO₂</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decomposition temperature</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Gas Clean Filter CO₂</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No specific data.</td>
<td></td>
</tr>
</tbody>
</table>

10.2 Chemical stability

<table>
<thead>
<tr>
<th>Property</th>
<th>Gas Clean Filter CO₂</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The product is stable.</td>
<td>The product is stable.</td>
</tr>
</tbody>
</table>

10.3 Possibility of hazardous reactions

<table>
<thead>
<tr>
<th>Property</th>
<th>Gas Clean Filter CO₂</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
</tbody>
</table>

10.4 Conditions to avoid

<table>
<thead>
<tr>
<th>Property</th>
<th>Gas Clean Filter CO₂</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No specific data.</td>
<td></td>
</tr>
</tbody>
</table>

10.5 Incompatible materials

<table>
<thead>
<tr>
<th>Property</th>
<th>Gas Clean Filter CO₂</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>May react or be incompatible with oxidising materials.</td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
</tbody>
</table>

10.6 Hazardous decomposition products

<table>
<thead>
<tr>
<th>Property</th>
<th>Gas Clean Filter CO₂</th>
<th>Gas Clean Filter Moisture</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
</tbody>
</table>

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>Calcium dihydroxide</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>7340 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>1350 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Acute toxicity estimates

Not available.

Irritation/Corrosion

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SECTION 11: Toxicological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Clean Filter CO2</td>
<td>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>10 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>Calcium dihydroxide</td>
<td>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 50 Micrograms</td>
<td>-</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>1 Percent</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>0.5 minutes 1 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
</tbody>
</table>

**Sensitiser**

Conclusion/Summary: Not available.

**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.

<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>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 likely routes of exposure**

Gas Clean Filter CO2 Routes of entry anticipated: Oral, Dermal, Inhalation.
Gas Clean Filter Moisture Routes of entry anticipated: Oral, Dermal, Inhalation.

**Potential acute health effects**

**Inhalation**

Gas Clean Filter CO2: No known significant effects or critical hazards.
Gas Clean Filter Moisture: No known significant effects or critical hazards.

**Ingestion**

Gas Clean Filter CO2: Corrosive to the digestive tract. Causes burns.
Gas Clean Filter Moisture: No known significant effects or critical hazards.

**Skin contact**

Gas Clean Filter CO2: Causes severe burns.
Gas Clean Filter Moisture: No known significant effects or critical hazards.

**Eye contact**

Gas Clean Filter CO2: Causes serious eye damage.
Gas Clean Filter Moisture: No known significant effects or critical hazards.

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

**Inhalation**

Gas Clean Filter CO2: No specific data.
Gas Clean Filter Moisture: No specific data.

**Ingestion**

Gas Clean Filter CO2: Adverse symptoms may include the following: stomach pains.
Gas Clean Filter Moisture: No specific data.

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Skin contact: Gas Clean Filter CO2 Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
Gas Clean Filter Moisture No specific data.

Eye contact: Gas Clean Filter CO2 Adverse symptoms may include the following:
pain
watering
redness
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

General: Gas Clean Filter CO2 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 CO2 No known significant effects or critical hazards.
Gas Clean Filter Moisture No known significant effects or critical hazards.

Mutagenicity: Gas Clean Filter CO2 No known significant effects or critical hazards.
Gas Clean Filter Moisture No known significant effects or critical hazards.

Teratogenicity: Gas Clean Filter CO2 No known significant effects or critical hazards.
Gas Clean Filter Moisture No known significant effects or critical hazards.

Developmental effects: Gas Clean Filter CO2 No known significant effects or critical hazards.
Gas Clean Filter Moisture No known significant effects or critical hazards.

Fertility effects: Gas Clean Filter CO2 No known significant effects or critical hazards.
Gas Clean Filter Moisture No known significant effects or critical hazards.

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 CO2</td>
<td></td>
<td>Fish - Clarias gariepinus - Fingerling</td>
<td>96 hours</td>
</tr>
<tr>
<td>Calcium dihydroxide</td>
<td>Acute LC50 33884.4 μg/l Fresh water</td>
<td>Fish - Gambusia affinis - Adult</td>
<td>96 hours</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>Acute LC50 125 ppm Fresh water</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability

Not available.

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Clean Filter CO2</td>
<td></td>
<td></td>
<td>Readily</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential
SECTION 12: Ecological information

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

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

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.

ADR/RID / IMDG / IATA : Not regulated.

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 Annex II of Marpol and the IBC Code : Not available.

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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

Gas Clean Filter CO2: Not applicable.
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.

Seveso Directive
This product is not controlled under the Seveso Directive.

International regulations

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

Montreal Protocol (Annexes A, B, C, E)
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 (ENCS): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted.
Malaysia: 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: Not determined.
Turkey: Not determined.
United States: All components are listed or exempted.

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SECTION 15: Regulatory information

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]
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number

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 CO2</td>
<td>On basis of test data Calculation method</td>
</tr>
<tr>
<td>Skin Corr. 1, H314</td>
<td>Causes severe skin burns and eye damage. Causes skin irritation. Causes serious eye damage. Harmful to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>Aquatic Chronic 3, H412</td>
<td></td>
</tr>
<tr>
<td>Gas Clean Filter Moisture</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT RE 2, H373</td>
<td></td>
</tr>
</tbody>
</table>

Full text of abbreviated H statements

- **Gas Clean Filter CO2**
  - H314: Causes severe skin burns and eye damage.
  - H315: Causes skin irritation.
  - H318: Causes serious eye damage.
  - H412: Harmful to aquatic life with long lasting effects.

- **Gas Clean Filter Moisture**
  - H372 (inhalation): Causes damage to organs through prolonged or repeated exposure if inhaled. May cause damage to organs through prolonged or repeated exposure.
  - H373: 

Full text of classifications [CLP/GHS]

- **Gas Clean Filter CO2**
  - Aquatic Chronic 3, H412
  - EUH071
  - Eye Dam. 1, H318
  - Skin Corr. 1, H314
  - Skin Corr. 1A, H314
  - Skin Irrit. 2, H315
  - LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 Corrosive to the respiratory tract.
  - SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
  - SKIN CORROSION/IRRITATION - Category 1
  - SKIN CORROSION/IRRITATION - Category 1A
  - SKIN CORROSION/IRRITATION - Category 2

- **Gas Clean Filter Moisture**
  - STOT RE 1, H372 (inhalation)
  - STOT RE 2, H373
  - SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (inhalation) - Category 1
  - SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

Date of issue/ Date of revision : 25/09/2018
Date of previous issue : 31/05/2017
Version : 2

Notice to reader
SECTION 16: Other information

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