

SAFETY DATA SHEET



Gas Clean Filter FID Kit 1/4 in, Part Number CP7995

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

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

1.1 Product identifier

Product name : Gas Clean Filter FID Kit 1/4 in, Part Number CP7995
Part No. (Kit) : CP7995
Part No. : Gas Clean Filter CP17972
Hydrocarbon
Gas Clean Filter Oxygen CP17970
Gas Clean Filter Moisture CP17971

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

Identified uses	
Analytical chemistry.	
Gas Clean Filter Hydrocarbon	1 x 200 ml
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

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

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

Gas Clean Filter Hydrocarbon

H373 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

Gas Clean Filter Oxygen

H350 CARCINOGENICITY - Category 1A
H372 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
H412 LONG-TERM AQUATIC HAZARD - Category 3

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1/21

SECTION 2: Hazards identification

Gas Clean Filter Moisture

H350

CARCINOGENICITY - Category 1A

Ingredients of unknown toxicity : Gas Clean Filter Moisture Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 100%

Ingredients of unknown ecotoxicity : Gas Clean Filter Moisture Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 100%

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

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

2.2 Label elements

Hazard pictograms :



Signal word : Gas Clean Filter Hydrocarbon Warning

Gas Clean Filter Oxygen Danger

Gas Clean Filter Moisture Danger

Hazard statements : Gas Clean Filter Hydrocarbon **GHS08** -

May cause damage to organs through prolonged or repeated exposure.

Gas Clean Filter Oxygen **GHS08** -

May cause cancer.

Causes damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

Gas Clean Filter Moisture **GHS08** -

May cause cancer.

Precautionary statements

Prevention : Gas Clean Filter Hydrocarbon P260 - Do not breathe dust or mist.

Gas Clean Filter Oxygen P201 - Obtain special instructions before use.
P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
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. Wear eye or face protection. Wear protective clothing.

Response : Gas Clean Filter Hydrocarbon P314 - Get medical attention if you feel unwell.

Gas Clean Filter Oxygen P314 - Get medical attention if you feel unwell.
P308 + P313 - IF exposed or concerned: Get medical attention.

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

Storage : Gas Clean Filter Hydrocarbon Not applicable.

Gas Clean Filter Oxygen P405 - Store locked up.

Gas Clean Filter Moisture P405 - Store locked up.

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

Gas Clean Filter Oxygen 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.

SECTION 2: Hazards identification

Hazardous ingredients	: Gas Clean Filter Oxygen - aluminium oxide - nickel monoxide Gas Clean Filter Moisture - crystalline silica, respirable powder - cristobalite
Supplemental label elements	: Gas Clean Filter Not applicable. Hydrocarbon Gas Clean Filter Oxygen Contains nickel monoxide. May produce an allergic reaction. 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 Not applicable. Hydrocarbon Gas Clean Filter Oxygen Restricted to professional users. Gas Clean Filter Moisture Restricted to professional users.

Special packaging requirements

Tactile warning of danger	: Gas Clean Filter Not applicable. Hydrocarbon Gas Clean Filter Oxygen Not applicable. Gas Clean Filter Moisture Not applicable.
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2.3 Other hazards

Other hazards which do not result in classification	: Gas Clean Filter May form explosible dust-air mixture if dispersed. Hydrocarbon Gas Clean Filter Oxygen None known. Gas Clean Filter Moisture None known.
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SECTION 3: Composition/information on ingredients

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

3.1 Substances	: Gas Clean Filter Hydrocarbon Mono-constituent substance (encapsulated in article) Gas Clean Filter Oxygen Mixture (encapsulated in article) Gas Clean Filter Moisture Mixture (encapsulated in article)
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Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
Gas Clean Filter Hydrocarbon carbon	EC: 231-153-3 CAS: 7440-44-0	100	STOT RE 2, H373 (lungs)	[A]
Gas Clean Filter Oxygen aluminium oxide	EC: 215-691-6 CAS: 1344-28-1	≥75 - ≤90	STOT RE 1, H372 (lungs) (inhalation)	[1] [2]
Copper oxide, Activated	EC: 215-269-1 CAS: 1317-38-0	<10	Acute Tox. 4, H302 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411	[1]
Manganese dioxide	EC: 215-202-6 CAS: 1313-13-9 Index: 025-001-00-3	≤10	Acute Tox. 4, H302 Acute Tox. 4, H332	[1] [2]
nickel monoxide	EC: 215-215-7 CAS: 1313-99-1 Index: 028-003-00-2	<1	Skin Sens. 1, H317 Carc. 1A, H350i (inhalation) STOT RE 1, H372 Aquatic Chronic 4, H413	[1] [2]
Gas Clean Filter Moisture crystalline silica, respirable powder	EC: 238-878-4 CAS: 14808-60-7	<10	Carc. 1A, H350 STOT SE 2, H371 (lungs) (inhalation)	[1] [2]

SECTION 3: Composition/information on ingredients

cristobalite	EC: 238-455-4 CAS: 14464-46-1	<10	Carc. 1A, H350 STOT RE 2, H373 (lungs) See Section 16 for the full text of the H statements declared above.	[1] [2]
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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
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [A] Constituent
- [B] Impurity
- [C] Stabilising additive

SECTION 4: First aid measures

4.1 Description of first aid measures

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

SECTION 4: First aid measures

Skin contact	: Gas Clean Filter Hydrocarbon	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.
	Gas Clean Filter Oxygen	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.
	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 Hydrocarbon	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.
	Gas Clean Filter Oxygen	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. 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. 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. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: Gas Clean Filter Hydrocarbon	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Gas Clean Filter Oxygen	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

SECTION 4: First aid measures

Gas Clean Filter Moisture	resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. 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.
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4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	: Gas Clean Filter Hydrocarbon	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
	Gas Clean Filter Oxygen	No known significant effects or critical hazards.
	Gas Clean Filter Moisture	No known significant effects or critical hazards.
Inhalation	: Gas Clean Filter Hydrocarbon	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
	Gas Clean Filter Oxygen	No known significant effects or critical hazards.
	Gas Clean Filter Moisture	No known significant effects or critical hazards.
Skin contact	: Gas Clean Filter Hydrocarbon	No known significant effects or critical hazards.
	Gas Clean Filter Oxygen	No known significant effects or critical hazards.
	Gas Clean Filter Moisture	No known significant effects or critical hazards.
Ingestion	: Gas Clean Filter Hydrocarbon	No known significant effects or critical hazards.
	Gas Clean Filter Oxygen	No known significant effects or critical hazards.
	Gas Clean Filter Moisture	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: Gas Clean Filter Hydrocarbon	Adverse symptoms may include the following: irritation redness
	Gas Clean Filter Oxygen	No specific data.
	Gas Clean Filter Moisture	No specific data.
Inhalation	: Gas Clean Filter Hydrocarbon	Adverse symptoms may include the following: respiratory tract irritation coughing
	Gas Clean Filter Oxygen	No specific data.
	Gas Clean Filter Moisture	No specific data.
Skin contact	: Gas Clean Filter Hydrocarbon	No specific data.
	Gas Clean Filter Oxygen	No specific data.
	Gas Clean Filter Moisture	No specific data.
Ingestion	: Gas Clean Filter Hydrocarbon	No specific data.
	Gas Clean Filter Oxygen	No specific data.
	Gas Clean Filter Moisture	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Gas Clean Filter Hydrocarbon	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Gas Clean Filter Oxygen	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 Hydrocarbon	No specific treatment.
	Gas Clean Filter Oxygen	No specific treatment.
	Gas Clean Filter Moisture	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Gas Clean Filter Hydrocarbon	Use dry chemical powder.
	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 Hydrocarbon	Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
	Gas Clean Filter Oxygen	None known.
	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 Hydrocarbon	May form explosible dust-air mixture if dispersed.
	Gas Clean Filter Oxygen	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.
	Gas Clean Filter Moisture	No specific fire or explosion hazard.
Hazardous combustion products	: Gas Clean Filter Hydrocarbon	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	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 precautions for fire-fighters	: Gas Clean Filter Hydrocarbon	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
	Gas Clean Filter Oxygen	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Gas Clean Filter Moisture	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Gas Clean Filter Hydrocarbon	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	Gas Clean Filter Oxygen	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	Gas Clean Filter Moisture	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves)

SECTION 5: Firefighting measures

conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: Gas Clean Filter Hydrocarbon	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	Gas Clean Filter Oxygen	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt 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 spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: Gas Clean Filter Hydrocarbon	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Gas Clean Filter Oxygen	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Gas Clean Filter Moisture	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Gas Clean Filter Hydrocarbon	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Gas Clean Filter Oxygen	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). 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

SECTION 6: Accidental release measures

Methods for cleaning up	: Gas Clean Filter Hydrocarbon	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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.
	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. Dispose of via a licensed waste disposal contractor.
	Gas Clean Filter Moisture	Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: Gas Clean Filter Hydrocarbon	Put on appropriate personal protective equipment (see Section 8). Do not breathe dust. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
	Gas Clean Filter Oxygen	Put on appropriate personal protective equipment (see Section 8). 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. 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). 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. 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.

SECTION 7: Handling and storage

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

7.2 Conditions for safe storage, including any incompatibilities

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

Seveso Directive - Reporting thresholds (in tonnes)

Named substances

Name	Notification and MAPP threshold	Safety report threshold
Gas Clean Filter Oxygen Nickel compounds inhalable powder form	-	1

7.3 Specific end use(s)

Recommendations	: Gas Clean Filter Hydrocarbon	Industrial applications, Professional applications.
	Gas Clean Filter Oxygen	Industrial applications, Professional applications.
	Gas Clean Filter Moisture	Industrial applications, Professional applications.

SECTION 7: Handling and storage

Industrial sector specific solutions	Gas Clean Filter	Not applicable.
	Hydrocarbon	
	Gas Clean Filter Oxygen	Not applicable.
	Gas Clean Filter Moisture	Not applicable.

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

Product/ingredient name	Exposure limit values
Gas Clean Filter Oxygen aluminium oxide	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m ³ 8 hours. Form: inhalable dust
Manganese dioxide	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 0.5 mg/m ³ , (as Mn) 8 hours.
nickel monoxide	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. Inhalation sensitiser. Notes: as Ni TWA: 0.5 mg/m ³ , (as Ni) 8 hours.
Gas Clean Filter Moisture crystalline silica, respirable powder	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 0.1 mg/m ³ 8 hours. Form: respirable dust
cristobalite	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 0.1 mg/m ³ 8 hours. Form: respirable dust

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

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : If 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: safety glasses with side-shields.

SECTION 8: Exposure controls/personal protection

Skin protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Gas Clean Filter	Solid. [Powder.]
	Hydrocarbon	
	Gas Clean Filter	Solid. [Granular solid.]
	Oxygen	
Colour	: Gas Clean Filter	Black.
	Hydrocarbon	
	Gas Clean Filter	Brown. [Dark]
	Oxygen	
Odour	: Gas Clean Filter	None
	Hydrocarbon	
	Gas Clean Filter	Not available.
	Oxygen	
Odour threshold	: Gas Clean Filter	Not available.
	Hydrocarbon	
	Gas Clean Filter	Not available.
	Oxygen	
pH	: Gas Clean Filter	Not available.
	Hydrocarbon	
	Gas Clean Filter	Not available.
	Oxygen	
	: Gas Clean Filter	Not available.
	Moisture	

SECTION 9: Physical and chemical properties

Melting point/freezing point	: Gas Clean Filter Hydrocarbon	3652°C
	: Gas Clean Filter Oxygen	Not available.
	: Gas Clean Filter Moisture	Not available.
Initial boiling point and boiling range	: Gas Clean Filter Hydrocarbon	Not available.
	: Gas Clean Filter Oxygen	Not available.
	: Gas Clean Filter Moisture	Not available.
Flash point	: Gas Clean Filter Hydrocarbon	Not available.
	: Gas Clean Filter Oxygen	Not available.
	: Gas Clean Filter Moisture	Closed cup: >535°C
Evaporation rate	: Gas Clean Filter Hydrocarbon	Not applicable.
	: Gas Clean Filter Oxygen	Not available.
	: Gas Clean Filter Moisture	Not available.
Flammability (solid, gas)	: Gas Clean Filter Hydrocarbon	Not available.
	: Gas Clean Filter Oxygen	Not available.
	: Gas Clean Filter Moisture	Not available.
Upper/lower flammability or explosive limits	: Gas Clean Filter Hydrocarbon	Not available.
	: Gas Clean Filter Oxygen	Not available.
	: Gas Clean Filter Moisture	Not available.
Vapour pressure	: Gas Clean Filter Hydrocarbon	Not available.
	: Gas Clean Filter Oxygen	Not available.
	: Gas Clean Filter Moisture	Not available.
Vapour density	: Gas Clean Filter Hydrocarbon	Not available.
	: Gas Clean Filter Oxygen	Not available.
	: Gas Clean Filter Moisture	Not available.
Relative density	: Gas Clean Filter Hydrocarbon	1.9 to 2.2 [Water = 1]
	: Gas Clean Filter Oxygen	Not available.
	: Gas Clean Filter Moisture	Not available.
Solubility(ies)	: Gas Clean Filter Hydrocarbon	Insoluble in the following materials: cold water and hot water.
	: Gas Clean Filter Oxygen	Insoluble in the following materials: cold water and hot water.
	: Gas Clean Filter Moisture	Insoluble in the following materials: cold water and hot water.

SECTION 9: Physical and chemical properties

Partition coefficient: n-octanol/water	: Gas Clean Filter Hydrocarbon	Not available.
	: Gas Clean Filter Oxygen	Not available.
	: Gas Clean Filter Moisture	Not available.
	: Gas Clean Filter Hydrocarbon	452°C
Auto-ignition temperature	: Gas Clean Filter Oxygen	Not available.
	: Gas Clean Filter Moisture	Not available.
	: Gas Clean Filter Hydrocarbon	Not available.
	: Gas Clean Filter Oxygen	Not available.
Decomposition temperature	: Gas Clean Filter Moisture	Not available.
	: Gas Clean Filter Hydrocarbon	Not available.
	: Gas Clean Filter Oxygen	Not available.
	: Gas Clean Filter Moisture	Not available.
Viscosity	: Gas Clean Filter Hydrocarbon	Not available.
	: Gas Clean Filter Oxygen	Not available.
	: Gas Clean Filter Moisture	Not available.
	: Gas Clean Filter Hydrocarbon	Not available.
Explosive properties	: Gas Clean Filter Hydrocarbon	Not available.
	: Gas Clean Filter Oxygen	Not available.
	: Gas Clean Filter Moisture	Not available.
	: Gas Clean Filter Hydrocarbon	Not available.
Oxidising properties	: Gas Clean Filter Hydrocarbon	Not available.
	: Gas Clean Filter Oxygen	Not available.
	: Gas Clean Filter Moisture	Not available.
	: Gas Clean Filter Hydrocarbon	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: Gas Clean Filter Hydrocarbon	No specific test data related to reactivity available for this product or its ingredients.
	: Gas Clean Filter Oxygen	No specific test data related to reactivity available for this product or its ingredients.
	: Gas Clean Filter Moisture	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Gas Clean Filter Hydrocarbon	The product is stable.
	: Gas Clean Filter Oxygen	The product is stable.
	: Gas Clean Filter Moisture	The product is stable.
10.3 Possibility of hazardous reactions	: Gas Clean Filter Hydrocarbon	Under normal conditions of storage and use, hazardous reactions will not occur.
	: Gas Clean Filter Oxygen	Under normal conditions of storage and use, hazardous reactions will not occur.
	: Gas Clean Filter Moisture	Under normal conditions of storage and use, hazardous reactions will not occur.

SECTION 10: Stability and reactivity

- 10.4 Conditions to avoid** :
- Gas Clean Filter Hydrocarbon: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.
 - Gas Clean Filter Oxygen: No specific data.
 - Gas Clean Filter Moisture: No specific data.
- 10.5 Incompatible materials** :
- Gas Clean Filter Hydrocarbon: Reactive or incompatible with the following materials:
oxidizing materials
 - Gas Clean Filter Oxygen: May react or be incompatible with oxidising materials.
 - Gas Clean Filter Moisture: May react or be incompatible with oxidising materials.
- 10.6 Hazardous decomposition products** :
- Gas Clean Filter Hydrocarbon: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 - Gas Clean Filter Oxygen: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 - Gas Clean Filter Moisture: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Gas Clean Filter Oxygen				
aluminium oxide	LD50 Oral	Rat	>5000 mg/kg	-
Copper oxide, Activated	LD50 Oral	Rat	470 mg/kg	-
Manganese dioxide	LD50 Oral	Rat	3478 mg/kg	-
nickel monoxide	LD50 Oral	Rat	>5000 mg/kg	-

Acute toxicity estimates

Route	ATE value
Gas Clean Filter Oxygen	
Oral	2735.1 mg/kg
Inhalation (dusts and mists)	17.44 mg/l

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitiser

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Gas Clean Filter Oxygen Copper oxide, Activated	Category 3	Not applicable.	Respiratory tract irritation
Gas Clean Filter Moisture crystalline silica, respirable powder	Category 2	Inhalation	lungs

Specific target organ toxicity (repeated exposure)

SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
Gas Clean Filter Hydrocarbon carbon	Category 2	Not determined	lungs
Gas Clean Filter Oxygen aluminium oxide nickel monoxide	Category 1 Category 1	Inhalation Not determined	lungs Not determined
Gas Clean Filter Moisture cristobalite	Category 2	Not determined	lungs

Aspiration hazard

Not available.

Information on likely routes of exposure : Gas Clean Filter Hydrocarbon Routes of entry anticipated: Oral, Dermal, Inhalation.
 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

Inhalation : Gas Clean Filter Hydrocarbon Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
 Gas Clean Filter Oxygen No known significant effects or critical hazards.
 Gas Clean Filter Moisture No known significant effects or critical hazards.

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

Skin contact : Gas Clean Filter Hydrocarbon No known significant effects or critical hazards.
 Gas Clean Filter Oxygen No known significant effects or critical hazards.
 Gas Clean Filter Moisture No known significant effects or critical hazards.

Eye contact : Gas Clean Filter Hydrocarbon Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
 Gas Clean Filter Oxygen No known significant effects or critical hazards.
 Gas Clean Filter Moisture No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : Gas Clean Filter Hydrocarbon Adverse symptoms may include the following:
 respiratory tract irritation
 coughing
 Gas Clean Filter Oxygen No specific data.
 Gas Clean Filter Moisture No specific data.

Ingestion : Gas Clean Filter Hydrocarbon No specific data.
 Gas Clean Filter Oxygen No specific data.
 Gas Clean Filter Moisture No specific data.

Skin contact : Gas Clean Filter Hydrocarbon No specific data.
 Gas Clean Filter Oxygen No specific data.
 Gas Clean Filter Moisture No specific data.

Eye contact : Gas Clean Filter Hydrocarbon Adverse symptoms may include the following:
 irritation
 redness
 Gas Clean Filter Oxygen No specific data.
 Gas Clean Filter Moisture No specific data.

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

SECTION 11: Toxicological information

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 Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	May cause damage to organs through prolonged or repeated exposure. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Causes damage to organs through prolonged or repeated exposure. No known significant effects or critical hazards.
Carcinogenicity	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	No known significant effects or critical hazards. May cause cancer. Risk of cancer depends on duration and level of exposure. May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Teratogenicity	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Developmental effects	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Gas Clean Filter Hydrocarbon carbon	Acute NOEC ≥100 mg/l	Fish - Danio rerio	96 hours
Gas Clean Filter Oxygen aluminium oxide	Acute EC50 114.357 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Copper oxide, Activated	Acute LC50 2.6 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Manganese dioxide	Acute LC50 >56000 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
	EC50 >100 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	LC50 >100 mg/l NOEC >100 mg/l	Fish - Oncorhynchus mykiss Fish - Oncorhynchus mykiss	96 hours 96 hours

SECTION 12: Ecological information**12.2 Persistence and degradability**

Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Gas Clean Filter Oxygen nickel monoxide	-	5613	high

12.4 Mobility in soilSoil/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 : The classification of the product may meet the criteria for a hazardous waste.

Packaging

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

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

SECTION 14: Transport information

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

Regulatory information

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.

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	Not applicable.
	Hydrocarbon	
	Gas Clean Filter Oxygen	Restricted to professional users.
	Gas Clean Filter Moisture	Restricted to professional users.

Other EU regulations

Europe inventory : All components are listed or exempted.

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Named substances

Name
Gas Clean Filter Oxygen Nickel compounds inhalable powder form

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
Gas Clean Filter Oxygen nickel monoxide	UK Occupational Exposure Limits EH40 - WEL	inorganic nickel compounds Insoluble in water Except nickel carbonyl	Carc.	-

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.

International lists

National inventory

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

SECTION 15: Regulatory information

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.
Turkey	: Not determined.
United States	: All components are listed or exempted.

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

Classification	Justification
Gas Clean Filter Hydrocarbon STOT RE 2, H373	Calculation method
Gas Clean Filter Oxygen Carc. 1A, H350 STOT RE 1, H372 Aquatic Chronic 3, H412	Calculation method Calculation method Calculation method
Gas Clean Filter Moisture Carc. 1A, H350	Calculation method

Full text of abbreviated H statements

Gas Clean Filter Hydrocarbon H373	May cause damage to organs through prolonged or repeated exposure.
Gas Clean Filter Oxygen H302 H317 H319 H332 H335 H350 H350i (inhalation) H372 (inhalation)	Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause cancer. May cause cancer by inhalation.
H372 H411 H412 H413	Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. May cause long lasting harmful effects to aquatic life.
Gas Clean Filter Moisture H350 H371 (inhalation) H373	May cause cancer. May cause damage to organs if inhaled. May cause damage to organs through prolonged or repeated

SECTION 16: Other information

exposure.

[Full text of classifications \[CLP/GHS\]](#)

<p>Gas Clean Filter Hydrocarbon STOT RE 2, H373</p> <p>Gas Clean Filter Oxygen Acute Tox. 4, H302 Acute Tox. 4, H332 Aquatic Chronic 2, H411 Aquatic Chronic 3, H412 Aquatic Chronic 4, H413 Carc. 1A, H350 Carc. 1A, H350i (inhalation) Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 1, H372 (inhalation)</p> <p>STOT RE 1, H372</p> <p>STOT SE 3, H335</p> <p>Gas Clean Filter Moisture Carc. 1A, H350 STOT RE 2, H373</p> <p>STOT SE 2, H371 (inhalation)</p>	<p>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2</p> <p>ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 LONG-TERM AQUATIC HAZARD - Category 2 LONG-TERM AQUATIC HAZARD - Category 3 LONG-TERM AQUATIC HAZARD - Category 4 CARCINOGENICITY - Category 1A CARCINOGENICITY (inhalation) - Category 1A SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (inhalation) - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3</p> <p>CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (inhalation) - Category 2</p>
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Version : 1

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