Gas filter kit - FID 1/4"

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Europe

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 filter kit - FID 1/4" (4 gas filters, connecting unit - 4 position)

Part No. (Kit) : 1035164

Part No. : 1035210 Gas filter - Oxygen
1035220 Gas filter - Moisture
1035230 Gas filter - Hydrocarbon

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

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

1.3 Details of the supplier of the safety data sheet

Trajan Scientific Australia Pty Ltd
7 Argent Place, Ringwood, Victoria 3134, Australia
Toll Free (Australia): 1800 257 213 | Tel: +61 (0) 3 9874 8577
www.trajanscimed.com

e-mail address of person responsible for this SDS : techsupport@trajanscimed.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 Oxygen	Mixture (encapsulated in article)
Gas Clean Filter Moisture	Mixture (encapsulated in article)
Gas Clean Filter Hydrocarbon	Mono-constituent substance (encapsulated in article)

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

Gas Clean Filter Oxygen

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

Gas Clean Filter Moisture

H350	CARCINOGENICITY - Category 1A

Gas Clean Filter Hydrocarbon

SECTION 2: Hazards identification

H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (lungs) - Category 2

Ingredients of unknown toxicity :

Gas Clean Filter Oxygen	Not applicable.
Gas Clean Filter Moisture	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 100%
Gas Clean Filter Hydrocarbon	Not applicable.

Ingredients of unknown ecotoxicity :

Gas Clean Filter Oxygen	Not applicable.
Gas Clean Filter Moisture	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 100%
Gas Clean Filter Hydrocarbon	Not applicable.

Classification according to Directive 1999/45/EC [DPD]

Gas Clean Filter Oxygen	The product is classified as dangerous according to Directive 1999/45/EC and its amendments.
Gas Clean Filter Moisture	The product is classified as dangerous according to Directive 1999/45/EC and its amendments.
Gas Clean Filter Hydrocarbon	The product is classified as dangerous according to Directive 67/548/EEC and its amendments.

Classification :

Gas Clean Filter Oxygen	Carc. Cat. 1; R49 T; R48/23 R52/53
Gas Clean Filter Moisture	Carc. Cat. 1; R49
Gas Clean Filter Hydrocarbon	Xn; R48/20

Human health hazards :

Gas Clean Filter Oxygen	May cause cancer by inhalation. Also toxic: danger of serious damage to health by prolonged exposure through inhalation.
Gas Clean Filter Moisture	May cause cancer by inhalation.
Gas Clean Filter Hydrocarbon	Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Environmental hazards :

Gas Clean Filter Oxygen	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Gas Clean Filter Moisture	Not applicable.
Gas Clean Filter Hydrocarbon	Not applicable.

See Section 16 for the full text of the R phrases or 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 Oxygen	Danger
Gas Clean Filter Moisture	Danger
Gas Clean Filter Hydrocarbon	Warning

Hazard statements :

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.
Gas Clean Filter Hydrocarbon	**GHS08** - May cause damage to organs through prolonged or

SECTION 2: Hazards identification

repeated exposure. (lungs)

Precautionary statements

Prevention	:	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.
		Gas Clean Filter Hydrocarbon	P260 - Do not breathe dust or mist.
Response	:	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.
		Gas Clean Filter Hydrocarbon	P314 - Get medical attention if you feel unwell.
Storage	:	Gas Clean Filter Oxygen	P405 - Store locked up.
		Gas Clean Filter Moisture	P405 - Store locked up.
		Gas Clean Filter Hydrocarbon	Not applicable.
Disposal	:	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.
		Gas Clean Filter Hydrocarbon	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	**Gas Clean Filter Oxygen** aluminium oxide nickel monoxide **Gas Clean Filter Moisture** crystalline silica, respirable powder **Gas Clean Filter Hydrocarbon** carbon	
Supplemental label elements	:	Gas Clean Filter Oxygen	Contains nickel monoxide. May produce an allergic reaction.
		Gas Clean Filter Moisture	Contains nickel monoxide. May produce an allergic reaction.
		Gas Clean Filter Hydrocarbon	Contains nickel monoxide. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Restricted to professional users.	

Special packaging requirements

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

2.3 Other hazards

Other hazards which do not result in classification	:	Gas Clean Filter Oxygen	None known.
		Gas Clean Filter Moisture	None known.
		Gas Clean Filter Hydrocarbon	Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

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.

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

Product/ingredient name	Identifiers	%	Classification 67/548/EEC	Classification Regulation (EC) No. 1272/2008 [CLP]	Type
Gas Clean Filter Oxygen					
aluminium oxide	EC: 215-691-6 CAS: 1344-28-1	≥75 - <90	T; R48/23	STOT RE 1, H372 (lungs) (inhalation)	[1]
copper oxide	EC: 215-269-1 CAS: 1317-38-0	≥5 - <10	Xn; R22 Xi; R36/37 N; R51/53	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	≥5 - <10	Xn; R20/22	Acute Tox. 4, H302 Acute Tox. 4, H332	[1]
nickel monoxide	EC: 215-215-7 CAS: 1313-99-1 Index: 028-003-00-2	≥0.3 - <1	Carc. Cat. 1; R49 T; R48/23 R43 R53	Skin Sens. 1, H317 Carc. 1A, H350i (inhalation) STOT RE 1, H372 Aquatic Chronic 4, H413	[1]
Gas Clean Filter Moisture					
crystalline silica, respirable powder	EC: 238-878-4 CAS: 14808-60-7	≥5 - <10	Carc. Cat. 1; R49 Xn; R68/20	Carc. 1A, H350 STOT SE 2, H371 (lungs) (inhalation)	[1]
cristobalite	EC: 238-455-4 CAS: 14464-46-1	≥5 - <10	Carc. Cat. 1; R49 Xn; R48/20	Carc. 1A, H350 STOT RE 2, H373 (lungs)	[1]
Gas Clean Filter Hydrocarbon					
carbon	EC: 231-153-3 CAS: 7440-44-0	100	Xn; R48/20	STOT RE 2, H373 (lungs)	[A]
			See Section 16 for the full text of the R-phrases declared above.	**See Section 16 for the full text of the H statements declared above.**	

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	:	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.
		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.
Inhalation	:	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.
		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.
Skin contact	:	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.
		Gas Clean Filter Hydrocarbon	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SECTION 4: First aid measures

Ingestion	:	Gas Clean Filter 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.
		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.
Protection of first-aiders	:	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 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. 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 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.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

SECTION 4: First aid measures

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

Over-exposure signs/symptoms

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

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

SECTION 5: Firefighting measures

Unsuitable extinguishing media	:	Gas Clean Filter Oxygen	None known.
		Gas Clean Filter Moisture	None known.
		Gas Clean Filter Hydrocarbon	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	:	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.
		Gas Clean Filter Hydrocarbon	No specific fire or explosion hazard.
Hazardous combustion products	:	Gas Clean Filter Oxygen	Decomposition products may include the following materials: metal oxide/oxides
		Gas Clean Filter Moisture	Decomposition products may include the following materials: metal oxide/oxides
		Gas Clean Filter Hydrocarbon	Decomposition products may include the following materials: carbon dioxide carbon monoxide

5.3 Advice for firefighters

Special precautions for fire-fighters	:	Gas Clean Filter Oxygen	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
		Gas Clean Filter Moisture	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
		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.
Special protective equipment for fire-fighters	:	Gas Clean Filter Oxygen	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
		Gas Clean Filter Moisture	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
		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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	Gas Clean Filter Oxygen	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through 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

SECTION 6: Accidental release measures

			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 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. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	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".
		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".
6.2 Environmental precautions	:	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).
		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).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	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.
		Gas Clean Filter Hydrocarbon	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 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.
		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. 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.
Advice on general occupational hygiene	:	Gas Clean Filter Oxygen	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
		Gas Clean Filter Moisture	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
		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.
7.2 Conditions for safe storage, including any incompatibilities	:	Gas Clean Filter Oxygen	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in 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

SECTION 7: Handling and storage

	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 Hydrocarbon	Storage temperature: 25°C (77°F). 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.

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

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
Gas Clean Filter Oxygen C2: Toxic	50	200

7.3 Specific end use(s)

Recommendations	:	Gas Clean Filter Oxygen	Industrial applications, Professional applications.
		Gas Clean Filter Moisture	Industrial applications, Professional applications.
		Gas Clean Filter Hydrocarbon	Industrial applications, Professional applications.
Industrial sector specific solutions	:	Gas Clean Filter Oxygen	Not applicable.
		Gas Clean Filter Moisture	Not applicable.
		Gas Clean Filter Hydrocarbon	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

No exposure limit value known.

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 available.

SECTION 8: Exposure controls/personal protection

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.

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 : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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 Oxygen	Solid. [Granular solid.]
		Gas Clean Filter Moisture	Solid. [Granular solid.]
		Gas Clean Filter Hydrocarbon	Solid. [Granular solid.]
Colour	:	Gas Clean Filter Oxygen	Brown. [Dark]
		Gas Clean Filter Moisture	Tan.
		Gas Clean Filter Hydrocarbon	Black.

SECTION 9: Physical and chemical properties

Odour	:	Gas Clean Filter Oxygen	Not available.
		Gas Clean Filter Moisture	Not available.
		Gas Clean Filter Hydrocarbon	None
Odour threshold	:	Gas Clean Filter Oxygen	Not available.
		Gas Clean Filter Moisture	Not available.
		Gas Clean Filter Hydrocarbon	Not available.
pH	:	Gas Clean Filter Oxygen	Not available.
		Gas Clean Filter Moisture	Not available.
		Gas Clean Filter Hydrocarbon	Not available.
Melting point/freezing point	:	Gas Clean Filter Oxygen	Not available.
		Gas Clean Filter Moisture	Not available.
		Gas Clean Filter Hydrocarbon	3652°C
Initial boiling point and boiling range	:	Gas Clean Filter Oxygen	Not available.
		Gas Clean Filter Moisture	Not available.
		Gas Clean Filter Hydrocarbon	Not available.
Flash point	:	Gas Clean Filter Oxygen	Not available.
		Gas Clean Filter Moisture	Closed cup: >535°C
		Gas Clean Filter Hydrocarbon	Not available.
Evaporation rate	:	Gas Clean Filter Oxygen	Not available.
		Gas Clean Filter Moisture	Not available.
		Gas Clean Filter Hydrocarbon	Not applicable.
Flammability (solid, gas)	:	Gas Clean Filter Oxygen	Not available.
		Gas Clean Filter Moisture	Not available.
		Gas Clean Filter Hydrocarbon	Not available.
Upper/lower flammability or explosive limits	:	Gas Clean Filter Oxygen	Not available.
		Gas Clean Filter Moisture	Not available.
		Gas Clean Filter Hydrocarbon	Not available.
Vapour pressure	:	Gas Clean Filter Oxygen	Not available.
		Gas Clean Filter Moisture	Not available.
		Gas Clean Filter Hydrocarbon	Not available.

SECTION 9: Physical and chemical properties

Vapour density	:	Gas Clean Filter Oxygen	Not available.
		Gas Clean Filter Moisture	Not available.
		Gas Clean Filter Hydrocarbon	Not available.
Relative density	:	Gas Clean Filter Oxygen	Not available.
		Gas Clean Filter Moisture	Not available.
		Gas Clean Filter Hydrocarbon	1.9 to 2.2 [Water = 1]
Solubility(ies)	:	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.
		Gas Clean Filter Hydrocarbon	Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	:	Gas Clean Filter Oxygen	Not available.
		Gas Clean Filter Moisture	Not available.
		Gas Clean Filter Hydrocarbon	Not available.
Auto-ignition temperature	:	Gas Clean Filter Oxygen	Not available.
		Gas Clean Filter Moisture	Not available.
		Gas Clean Filter Hydrocarbon	452°C
Decomposition temperature	:	Gas Clean Filter Oxygen	Not available.
		Gas Clean Filter Moisture	Not available.
		Gas Clean Filter Hydrocarbon	Not available.
Viscosity	:	Gas Clean Filter Oxygen	Not available.
		Gas Clean Filter Moisture	Not available.
		Gas Clean Filter Hydrocarbon	Not available.
Explosive properties	:	Gas Clean Filter Oxygen	Not available.
		Gas Clean Filter Moisture	Not available.
		Gas Clean Filter Hydrocarbon	Not available.
Oxidising properties	:	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 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.
Gas Clean Filter Hydrocarbon — No specific test data related to reactivity available for this product or its ingredients.

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

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

10.4 Conditions to avoid : Gas Clean Filter Oxygen — No specific data.
Gas Clean Filter Moisture — No specific data.
Gas Clean Filter Hydrocarbon — No specific data.

10.5 Incompatible 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.
Gas Clean Filter Hydrocarbon — May react or be incompatible with oxidising materials.

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

Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity

Not available.

SECTION 11: Toxicological information

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Gas Clean Filter Oxygen			
copper oxide	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)

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

Aspiration hazard

Not available.

Information on the likely routes of exposure :

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

Potential acute health effects

Inhalation :

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

Ingestion :

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

Skin contact :

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

Eye contact :

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

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation :

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

SECTION 11: Toxicological information

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

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.

Long term exposure

Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.

Potential chronic health effects

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

Toxicokinetics

SECTION 11: Toxicological information

Absorption	:	Gas Clean Filter Oxygen	Not available.
		Gas Clean Filter Moisture	Not available.
		Gas Clean Filter Hydrocarbon	Not available.
Distribution	:	Gas Clean Filter Oxygen	Not available.
		Gas Clean Filter Moisture	Not available.
		Gas Clean Filter Hydrocarbon	Not available.
Metabolism	:	Gas Clean Filter Oxygen	Not available.
		Gas Clean Filter Moisture	Not available.
		Gas Clean Filter Hydrocarbon	Not available.
Elimination	:	Gas Clean Filter Oxygen	Not available.
		Gas Clean Filter Moisture	Not available.
		Gas Clean Filter Hydrocarbon	Not available.
Other information	:	Not available.	

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Gas Clean Filter Oxygen			
aluminium oxide	Acute EC50 114.357 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
copper oxide	Acute LC50 2.6 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 >56000 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours

12.2 Persistence and degradability

Conclusion/Summary : 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 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 : 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 73/78 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 : Restricted to professional users.

Other EU regulations

Europe inventory : All components are listed or exempted.

SECTION 15: Regulatory information

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
Gas Clean Filter Oxygen				
nickel monoxide	Carc. 1A, H350i (inhalation)	-	-	-
Gas Clean Filter Moisture				
Quartz (SiO2)	Carc. 1A, H350	-	-	-
cristobalite	Carc. 1A, H350	-	-	-

Seveso Directive

This product is controlled under the Seveso Directive.

Named substances

Name
Gas Clean Filter Oxygen Nickel compounds inhalable powder form

Danger criteria

Category
Gas Clean Filter Oxygen C2: Toxic

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 Inform 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.
Japan	:	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.
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

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

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

Full text of abbreviated H statements :

Gas Clean Filter Oxygen

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

Gas Clean Filter Moisture

H350	May cause cancer.
H371 (lungs) (inhalation)	May cause damage to organs if inhaled. (lungs)
H373 (lungs)	May cause damage to organs through prolonged or repeated exposure. (lungs)

Gas Clean Filter Hydrocarbon

H373 (lungs)	May cause damage to organs through prolonged or repeated exposure. (lungs)

Full text of classifications [CLP/GHS] :

Gas Clean Filter Oxygen

Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
Acute Tox. 4, H332	ACUTE TOXICITY (inhalation) - Category 4
Aquatic Chronic 2, H411	LONG-TERM AQUATIC HAZARD - Category 2
Aquatic Chronic 3, H412	LONG-TERM AQUATIC HAZARD - Category 3
Aquatic Chronic 4, H413	LONG-TERM AQUATIC HAZARD - Category 4
Carc. 1A, H350	CARCINOGENICITY - Category 1A
Carc. 1A, H350i (inhalation)	CARCINOGENICITY (inhalation) - Category 1A
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Skin Sens. 1, H317	SKIN SENSITIZATION - Category 1

SECTION 16: Other information

	STOT RE 1, H372	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	STOT RE 1, H372 (lungs) (inhalation)	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (lungs) (inhalation) - Category 1
	STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	Gas Clean Filter Moisture	
	Carc. 1A, H350	CARCINOGENICITY - Category 1A
	STOT RE 2, H373 (lungs)	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (lungs) - Category 2
	STOT SE 2, H371 (lungs) (inhalation)	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (lungs) (inhalation) - Category 2
	Gas Clean Filter Hydrocarbon	
	STOT RE 2, H373 (lungs)	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (lungs) - Category 2
Full text of abbreviated R phrases :	Gas Clean Filter Oxygen	R49- May cause cancer by inhalation. R48/23- Also toxic: danger of serious damage to health by prolonged exposure through inhalation. R22- Also harmful if swallowed. R20/22- Also harmful by inhalation and if swallowed. R36/37- Irritating to eyes and respiratory system. R43- May cause sensitisation by skin contact. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R53- May cause long-term adverse effects in the aquatic environment.
	Gas Clean Filter Moisture	R49- May cause cancer by inhalation. R68/20- Also harmful: possible risk of irreversible effects through inhalation. R48/20- Also harmful: danger of serious damage to health by prolonged exposure through inhalation.
	Gas Clean Filter Hydrocarbon	R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Full text of classifications [DSD/DPD] :	Gas Clean Filter Oxygen	Carc. Cat. 1 - Carcinogen category 1 T - Toxic Xn - Harmful Xi - Irritant N - Dangerous for the environment
	Gas Clean Filter Moisture	Carc. Cat. 1 - Carcinogen category 1 Xn - Harmful
	Gas Clean Filter Hydrocarbon	Xn - Harmful
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Notice to reader

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