

SAFETY DATA SHEET

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

Section 1. Identification

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

1.1 Product identifier

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

Validation date : 3/13/2024

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

Identified uses	: <input checked="" type="checkbox"/> Analytical chemistry.		
	: <input checked="" type="checkbox"/> Gas Clean Filter Hydrocarbon	2 x 200 ml	
	: <input checked="" type="checkbox"/> Gas Clean Filter Oxygen	1 x 200 ml	
	: <input checked="" type="checkbox"/> Gas Clean Filter Moisture	1 x 200 ml	

1.3 Details of the supplier of the safety data sheet

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

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

Section 2. Hazards identification

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

2.1 Classification of the substance or mixture

OSHA/HCS status	: <input checked="" type="checkbox"/> Gas Clean Filter Hydrocarbon	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	: <input checked="" type="checkbox"/> Gas Clean Filter Oxygen	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	: <input checked="" type="checkbox"/> Gas Clean Filter Moisture	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

Gas Clean Filter Oxygen

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

Section 2. Hazards identification

Gas Clean Filter Moisture

H350	CARCINOGENICITY - Category 1A
H372	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
Ingredients of unknown toxicity	
	Gas Clean Filter Oxygen Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: > 60%

Gas Clean Filter Moisture

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 100%

2.2 GHS label elements

Hazard pictograms	: Gas Clean Filter Oxygen	
	Gas Clean Filter Moisture	
Signal word	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	No signal word. Danger Danger
Hazard statements	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen	No known significant effects or critical hazards. H317 - May cause an allergic skin reaction. H332 - Harmful if inhaled. H350 - May cause cancer. H373 - May cause damage to organs through prolonged or repeated exposure. (brain) H400 - Very toxic to aquatic life. H411 - Toxic to aquatic life with long lasting effects. H350 - May cause cancer. H372 - Causes damage to organs through prolonged or repeated exposure. (lungs)
Precautionary statements		
Prevention	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen	Not applicable. P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing and eye or face protection. P273 - Avoid release to the environment. P260 - Do not breathe dust. P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing and eye or face protection. P260 - Do not breathe dust. P270 - Do not eat, drink or smoke when using this product.
Response	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen	Not applicable. P391 - Collect spillage. P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P363 - Wash contaminated clothing before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water.

Section 2. Hazards identification

	Gas Clean Filter Moisture	P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P308 + P313 - IF exposed or concerned: Get medical advice or attention.
Storage	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	Not applicable. Not applicable. Not applicable.
Disposal	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen	Not applicable. 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.
Supplemental label elements	: <input checked="" type="checkbox"/> Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	None known. None known. None known.
<u>2.3 Other hazards</u>		
Hazards not otherwise classified	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	None known. None known. None known.

Section 3. Composition/information on ingredients

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

Substance/mixture	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	Substance (encapsulated in article) Mixture (encapsulated in article) Mixture (encapsulated in article)
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Ingredient name	%	CAS number
Gas Clean Filter Hydrocarbon		
carbon	100	7440-44-0
Gas Clean Filter Oxygen		
Copper oxide, Activated	≤10	1317-38-0
Manganese dioxide	≤10	1313-13-9
nickel monoxide	<1	1313-99-1
Gas Clean Filter Moisture		
crystalline silica, respirable powder	≤10	14808-60-7
cristobalite	≤10	14464-46-1

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

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

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact	:  Gas Clean Filter Hydrocarbon	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Gas Clean Filter Oxygen	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. 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. Get medical attention if symptoms occur.
	Gas Clean Filter Oxygen	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Gas Clean Filter Moisture	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	:  Gas Clean Filter Hydrocarbon	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Gas Clean Filter Oxygen	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Gas Clean Filter Moisture	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Section 4. First aid measures

Ingestion

: Gas Clean Filter Hydrocarbon

least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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

Gas Clean Filter Oxygen

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

Gas Clean Filter Moisture

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

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

: 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.

Inhalation

: Gas Clean Filter Hydrocarbon
Gas Clean Filter Oxygen
Gas Clean Filter Moisture

No known significant effects or critical hazards.
Harmful if inhaled.

Skin contact

: Gas Clean Filter Hydrocarbon
Gas Clean Filter Oxygen
Gas Clean Filter Moisture

No known significant effects or critical hazards.
May cause an allergic skin reaction.

Ingestion

: 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.

Over-exposure signs/symptoms

Eye contact

: Gas Clean Filter Hydrocarbon
Gas Clean Filter Oxygen
Gas Clean Filter Moisture

No specific data.
No specific data.
No specific data.

Inhalation

: Gas Clean Filter Hydrocarbon
Gas Clean Filter Oxygen
Gas Clean Filter Moisture

No specific data.
No specific data.
No specific data.

Section 4. First aid measures

Skin contact	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	No specific data. Adverse symptoms may include the following: irritation redness No specific data.
Ingestion	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	No specific data. No specific data. No specific data.
<u>4.3 Indication of immediate medical attention and special treatment needed, if necessary</u>		
Notes to physician	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	No specific treatment. No specific treatment. No specific treatment.
Protection of first-aiders	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	No action shall be taken involving any personal risk or without suitable training. 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. 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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

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

5.2 Special hazards arising from the substance or mixture

Section 5. Fire-fighting measures

Specific hazards arising from the chemical	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen	No specific fire or explosion hazard. This material is very toxic to aquatic life. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. No specific fire or explosion hazard.
Hazardous thermal decomposition products	: Gas Clean Filter Moisture Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	Decomposition products may include the following materials: carbon dioxide carbon monoxide Decomposition products may include the following materials: metal oxide/oxides Decomposition products may include the following materials: metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen 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. 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. 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 Gas Clean Filter Oxygen 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. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator
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Section 6. Accidental release measures

Gas Clean Filter Moisture	when ventilation is inadequate. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders : Gas Clean Filter Hydrocarbon	If specialized 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 specialized 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 specialized 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 spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Gas Clean Filter Oxygen	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Gas Clean Filter Moisture	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and materials for containment and cleaning up	
Methods for cleaning up : Gas Clean Filter Hydrocarbon	Move containers from spill area. Vacuum or sweep up material and place in a designated, 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. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Gas Clean Filter Moisture	Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures	Gas Clean Filter Hydrocarbon	Put on appropriate personal protective equipment (see Section 8).
	Gas Clean Filter Oxygen	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	Gas Clean Filter Moisture	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all 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.
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.

Section 7. Handling and storage

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

7.3 Specific end use(s)

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

Section 8. Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
Gas Clean Filter Hydrocarbon carbon	None.
Gas Clean Filter Oxygen Copper oxide, Activated	<p>NIOSH REL (United States, 10/2020). [COPPER FUME] TWA: 0.1 mg/m³, (as Cu) 10 hours. Form: Fume</p> <p>OSHA PEL 1989 (United States, 3/1989). [Copper Fume (as Cu)] TWA: 0.1 mg/m³, (as Cu) 8 hours. Form: Fume</p> <p>ACGIH TLV (United States, 1/2023). [copper fume] TWA: 0.2 mg/m³ 8 hours. Form: Fume</p> <p>CAL OSHA PEL (United States, 5/2018). [copper salts] TWA: 1 mg/m³, (as Cu) 8 hours. Form: dust and mist</p>
Manganese dioxide	<p>OSHA PEL 1989 (United States, 3/1989). [Manganese compounds (as Mn)] CEIL: 5 mg/m³, (as Mn)</p> <p>OSHA PEL (United States, 5/2018). [Manganese compounds] CEIL: 5 mg/m³, (as Mn)</p> <p>NIOSH REL (United States, 10/2020). [manganese compounds and fume] TWA: 1 mg/m³, (as Mn) 10 hours. Form: Fume STEL: 3 mg/m³, (as Mn) 15 minutes. Form: Fume</p> <p>OSHA PEL 1989 (United States, 3/1989). [Manganese fume] TWA: 1 mg/m³, (as Mn) 8 hours. Form: Fume STEL: 3 mg/m³, (as Mn) 15 minutes. Form: Fume</p> <p>ACGIH TLV (United States, 1/2023). [Manganese and inorganic compounds] TWA: 0.1 mg/m³, (as Mn) 8 hours. Form: Inhalable fraction TWA: 0.02 mg/m³, (as Mn) 8 hours. Form: Respirable fraction</p> <p>CAL OSHA PEL (United States, 5/2018). [manganese and compounds] TWA: 0.2 mg/m³, (as Mn) 8 hours.</p>
nickel monoxide	<p>OSHA PEL 1989 (United States, 3/1989). [Nickel, metal and insoluble compounds (as Ni)] TWA: 1 mg/m³, (as Ni) 8 hours.</p> <p>ACGIH TLV (United States, 1/2023). [Nickel, insoluble inorganic compounds] TWA: 0.2 mg/m³, (as Ni) 8 hours. Form: Inhalable fraction</p> <p>NIOSH REL (United States, 10/2020). [nickel metal and other compounds] TWA: 0.015 mg/m³, (as Ni) 10 hours.</p>

Section 8. Exposure controls/personal protection

Gas Clean Filter Moisture

crystalline silica, respirable powder

OSHA PEL (United States, 5/2018). [Nickel, metal and insoluble compounds]

TWA: 1 mg/m³, (as Ni) 8 hours.

CAL OSHA PEL (United States, 5/2018). [nickel, insoluble compounds]

TWA: 0.1 mg/m³, (as Ni) 8 hours.

CAL OSHA PEL (United States, 5/2018).

TWA: 0.05 mg/m³ 8 hours.

OSHA PEL Z3 (United States, 6/2016).

TWA: 250 mppcf / (%SiO₂+5) 8 hours. Form: Respirable

TWA: 10 mg/m³ / (%SiO₂+2) 8 hours. Form: Respirable

OSHA PEL 1989 (United States, 3/1989).

TWA: 0.1 mg/m³, (as quartz) 8 hours. Form: Respirable dust

OSHA PEL (United States, 5/2018). [Silica, crystalline]

TWA: 50 µg/m³ 8 hours. Form: Respirable dust

ACGIH TLV (United States, 1/2023). [Silica, crystalline]

TWA: 0.025 mg/m³ 8 hours. Form: Respirable fraction

NIOSH REL (United States, 10/2020). [SILICA, CRYSTALLINE]

TWA: 0.05 mg/m³ 10 hours. Form: respirable dust

OSHA PEL Z3 (United States, 6/2016).

TWA: 250 mppcf / 2 x (%SiO₂+5) 8 hours. Form: Respirable

TWA: 10 mg/m³ / 2 x (%SiO₂+2) 8 hours. Form: Respirable

TWA: 30 mg/m³ / 2 x (%SiO₂+2) 8 hours. Form: Total dust

OSHA PEL 1989 (United States, 3/1989).

TWA: 0.05 mg/m³, (as quartz) 8 hours. Form: Respirable dust

OSHA PEL (United States, 5/2018). [Silica, crystalline]

TWA: 50 µg/m³ 8 hours. Form: Respirable dust

ACGIH TLV (United States, 1/2023). [Silica, crystalline]

TWA: 0.025 mg/m³ 8 hours. Form: Respirable fraction

NIOSH REL (United States, 10/2020). [SILICA, CRYSTALLINE]

TWA: 0.05 mg/m³ 10 hours. Form: respirable dust

CAL OSHA PEL (United States, 5/2018).

TWA: 0.05 mg/m³ 8 hours. Form: respirable dust

cristobalite

Biological exposure indices

Section 8. Exposure controls/personal protection

Ingredient name	Exposure indices
Gas Clean Filter Oxygen nickel monoxide	<p>ACGIH BEI (United States, 1/2023) [nickel and inorganic compounds] BEI: 30 µg/l, nickel [in urine after exposure to soluble compounds]. Sampling time: post-shift at end of workweek.</p> <p>BEI: 5 µg/l, nickel [in urine after exposure to elemental nickel and poorly soluble compounds]. Sampling time: post-shift at end of workweek.</p>

8.2 Exposure controls

Appropriate engineering controls

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

Environmental exposure controls

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

Individual protection measures

Hygiene measures

- Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

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

Skin protection

Hand protection

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

Body protection

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

Other skin protection

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

Respiratory protection

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

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state	: <input checked="" type="checkbox"/> Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	Solid. [Granular solid.] Solid. [Granular solid.] Solid. [Granular solid.]														
Color	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	Black. Brown. [Dark] Tan.														
Odor	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	None Not available. Not available.														
Odor threshold	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	Not available. Not available. Not available.														
pH	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	Not available. Not available. Not available.														
Melting point/freezing point	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	3652°C (6605.6°F) Not available. Not available.														
Boiling point, initial boiling point, and boiling range	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	Not available. Not available. Not available.														
Flash point	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	Not applicable. Not applicable. Closed cup: >535°C (>995°F)														
Evaporation rate	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	Not applicable. Not available. Not available.														
Flammability	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	Not available. Not available. Not available.														
Lower and upper explosion limit/flammability limit	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	Not applicable. Not applicable. Not applicable.														
Vapor pressure	: <input checked="" type="checkbox"/> Gas Clean Filter Hydrocarbon	Not applicable.														
Relative vapor density	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	Not applicable. Not applicable. Not applicable.														
Relative density	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	1.9 to 2.2 Not available. Not available.														
Solubility(ies)	<table border="1"> <thead> <tr> <th>Media</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>Gas Clean Filter Hydrocarbon</td> <td>Insoluble</td> </tr> <tr> <td>water</td> <td></td> </tr> <tr> <td>Gas Clean Filter Oxygen</td> <td>Soluble</td> </tr> <tr> <td>water</td> <td></td> </tr> <tr> <td>Gas Clean Filter Moisture</td> <td>Soluble</td> </tr> <tr> <td>water</td> <td></td> </tr> </tbody> </table>		Media	Result	Gas Clean Filter Hydrocarbon	Insoluble	water		Gas Clean Filter Oxygen	Soluble	water		Gas Clean Filter Moisture	Soluble	water	
Media	Result															
Gas Clean Filter Hydrocarbon	Insoluble															
water																
Gas Clean Filter Oxygen	Soluble															
water																
Gas Clean Filter Moisture	Soluble															
water																
Partition coefficient: n-octanol/water	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	Not applicable. Not applicable. Not applicable.														

Section 9. Physical and chemical properties and safety characteristics

Auto-ignition temperature	:	Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	452°C (845.6°F) Not applicable. Not applicable.
Decomposition temperature	:	Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	Not available. Not available. Not available.
Viscosity	:	Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	Not applicable. Not applicable. Not applicable.
Particle characteristics			
Median particle size	:	Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	Not available. Not available. Not available.

Section 10. Stability and reactivity

10.1 Reactivity	:	Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	The product is stable. The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	:	Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	No specific data. No specific data. No specific data.
10.5 Incompatible materials	:	Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	:	Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. 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 Hydrocarbon carbon	LD50 Oral	Rat	>10000 mg/kg	-
Gas Clean Filter Oxygen Copper oxide, Activated	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
Manganese dioxide nickel monoxide	LD50 Oral LD50 Oral LC50 Inhalation Dusts and mists	Rat Rat Rat - Male, Female	470 mg/kg 3478 mg/kg >5.08 mg/l	- - 4 hours

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Gas Clean Filter Oxygen nickel monoxide	-	1	Known to be a human carcinogen.
Gas Clean Filter Moisture crystalline silica, respirable powder cristobalite	+	1	Known to be a human carcinogen.
	+	1	Known to be a human carcinogen.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Gas Clean Filter Oxygen Manganese dioxide nickel monoxide	Category 2 Category 1	inhalation inhalation	brain lungs
Gas Clean Filter Moisture crystalline silica, respirable powder cristobalite	Category 1 Category 1	inhalation inhalation	lungs lungs

Aspiration hazard

Not available.

Section 11. Toxicological information

Information on the likely routes of exposure	Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	Not available. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Potential acute health effects		
Eye contact	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.
Inhalation	Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	No known significant effects or critical hazards. Harmful if inhaled.
Skin contact	Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	No known significant effects or critical hazards. May cause an allergic skin reaction.
Ingestion	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.
Symptoms related to the physical, chemical and toxicological characteristics		
Eye contact	Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	No specific data. No specific data. No specific data.
Inhalation	Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	No specific data. No specific data. No specific data.
Skin contact	Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	No specific data. Adverse symptoms may include the following: irritation redness No specific data.
Ingestion	Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	No specific data. No specific data. No specific data.
Delayed and immediate effects and also chronic effects from short and long term exposure		
Short term exposure		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Long term exposure		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Potential chronic health effects		
General	Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	No known significant effects or critical hazards. May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Causes damage to organs through prolonged or repeated exposure.

Section 11. Toxicological information

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.
Reproductive toxicity	: 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.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Gas Clean Filter Oxygen Gas Clean Filter Oxygen Copper oxide, Activated Manganese dioxide	4579.9 470 3478	27472.5 2500 N/A	N/A N/A N/A	N/A N/A N/A	1.6 N/A 1.5

Other information

: Gas Clean Filter Oxygen

Adverse symptoms may include the following: pulmonary fibrosis (dust). May cause skin sensitization.

Section 12. Ecological information

12.1 Toxicity

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

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Section 12. Ecological information

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.

12.5 Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

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

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

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.

DOT / TDG / Mexico / IMDG / : Not regulated.

IATA

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

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

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

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined
Clean Water Act (CWA) 307: Copper oxide, Activated; nickel monoxide
Clean Water Act (CWA) 311: Sulphuric acid

Clean Air Act Section 112 : Listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 : Not listed
Class I Substances

Clean Air Act Section 602 : Not listed
Class II Substances

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Gas Clean Filter Oxygen Sulphuric acid	≤0.1	Yes.	1000	66.3	1000	66.3

SARA 304 RQ : 6000000 lbs / 2724000 kg

SARA 311/312

Classification	: Gas Clean Filter Hydrocarbon Gas Clean Filter Oxygen Gas Clean Filter Moisture	Not applicable. ACUTE TOXICITY (inhalation) - Category 4 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
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Composition/information on ingredients

Name	%	Classification
Gas Clean Filter Hydrocarbon carbon	100	COMBUSTIBLE DUSTS
Gas Clean Filter Oxygen Copper oxide, Activated Manganese dioxide	≤10	ACUTE TOXICITY (oral) - Category 4
	≤10	OXIDIZING SOLIDS - Category 3
nickel monoxide	<1	ACUTE TOXICITY (inhalation) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
Gas Clean Filter Moisture crystalline silica, respirable powder cristobalite	≤10	CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	≤10	CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

SARA 313

Section 15. Regulatory information

	Product name	CAS number	%
Form R - Reporting requirements	Gas Clean Filter Oxygen Copper oxide, Activated Manganese dioxide nickel monoxide	1317-38-0 1313-13-9 1313-99-1	≤10 ≤10 <1
Supplier notification	Gas Clean Filter Oxygen Copper oxide, Activated Manganese dioxide nickel monoxide	1317-38-0 1313-13-9 1313-99-1	≤10 ≤10 <1

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

State regulations

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

New York : None of the components are listed.

New Jersey : The following components are listed: ALUMINUM OXIDE; COPPER compounds; SILICA, QUARTZ; SILICA, CRISTOBALITE; NICKEL OXIDE

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

California Prop. 65

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

Ingredient name	No significant risk level	Maximum acceptable dosage level
Gas Clean Filter Oxygen Nickel oxide Strong inorganic acid mists containing sulfuric acid	- -	- -
Gas Clean Filter Moisture Silica, crystalline Silica, crystalline	- -	- -

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : All components are listed or exempted.

Canada : Not determined.

Section 15. Regulatory information

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

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
Gas Clean Filter Oxygen	
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 1A	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method
AQUATIC HAZARD (ACUTE) - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 2	Calculation method
Gas Clean Filter Moisture	
CARCINOGENICITY - Category 1A	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1	Calculation method

History

Date of issue/Date of revision	: 03/13/2024
Date of previous issue	: 11/09/2021
Version	: 6
Key to abbreviations	<p>: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available UN = United Nations</p>

 Indicates information that has changed from previously issued version.

Notice to reader

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