SAFETY DATA SHEET

1. Identification

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

1.1 Product identifier

Product name : Restek Oxygen Filter

Part No. : 22029
Brand : Restek

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

Material uses : Gas Purification

1.1 Details of the supplier of the safety data sheet

Manufacturer : Scientific Glass Technology Singapore Pte Ltd

83 Science Park Drive #01-01 The curie

Singapore Science Park I

Singapore 118258

1.2 Emergency telephone number

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

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 : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the substance or mixture

H302 ACUTE TOXICITY (oral) - Category 4
H317 SKIN SENSITIZATION - Category 1
H350 CARCINOGENICITY - Category 1A

H372 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

Ingredients of unknown

toxicity

: Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 81.7%

2.1 GHS label elements

Hazard pictograms :





Signal word : Danger

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Hazard statements : H302 - Harmful if swallowed.

H317 - May cause an allergic skin reaction.

H350 - May cause cancer.

H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P281 - Use personal protective equipment as required.

P280 - Wear protective gloves. P260 - Do not breathe dust.

P270 - Do not eat, drink or smoke when using this product.

P264 - Wash hands thoroughly afterhandling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

Response : P314 - Get medical attention if you feel unwell.

P308 + P313 - IF exposed or concerned: Get medical attention.

P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you

feel unwell. Rinse mouth.

P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash

contaminated clothing before reuse.

P333 + P313 - If skin irritation or rash occurs: Get medical attention.

Storage: P405 - Store locked up.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national

and international regulations.

2.1 Other hazards

Hazards not otherwise

classified

: None known.

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 : Mixture

Ingredient name	%	CAS number
	≤ 70 ≤ 13	1344-28-1 1317-38-0
		1313-13-9 1313-99-1

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 as hazardous to health or the environment and hence require reporting in this section.

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

4. First aid measures

4.1 Description of necessary first aid measures

Eye contact : Immediately flu

: 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.

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Inhalation

: 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

: 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.

Ingestion

: 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. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

4.1 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

Skin contact: May cause an allergic skin reaction.

Ingestion: Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact : No specific data. **Inhalation** : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion: No specific data.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

Protection of first-aiders : 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)

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5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

: None known.

5.1 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

: No specific fire or explosion hazard.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

metal oxide/oxides

5.1 Advice for firefighters

Special protective actions for fire-fighters

: 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

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

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: 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: 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 nonemergency personnel".

6.1 Environmental precautions

: 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).

6.1 Methods and materials for containment and cleaning up

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.

7. Handling and storage

7.1 Precautions for safe handling

Protective measures

: 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. 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.

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Advice on general occupational hygiene

: 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.

7.1 Conditions for safe storage, including any incompatibilities

: 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.

7.1 Specific end use(s)

Recommendations: Industrial applications, Professional applications.

Industrial sector specific

solutions

: Not applicable.

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

Ingredient name	Exposure limits
Aluminium oxide	OSHA PEL 1989 (United States, 3/1989). TWA: 10 mg/m³ 8 hours. Form: Dust TWA: 5 mg/m³ 8 hours. Form: Respirable fraction ACGIH TLV (United States). TWA: 1 mg/m³ Form: Respirable ACGIH TLV (United States, 3/2012). TWA: 1 mg/m³ 8 hours. Form: Respirable fraction OSHA PEL (United States, 6/2010). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust NIOSH REL (United States, 1/2013). Notes: as AI
Activated Copper oxide	TWA: 5 mg/m³, (as Al) 10 hours. Form: PYRO POWDERS AND WELDING FUMES NIOSH REL (United States, 1/2013). TWA: 0.1 mg/m³, (as Cu) 10 hours. Form: Fume OSHA PEL (United States). TWA: 1 mg/m³, (Cu) 8 hours. Form: Total dust
Activated Manganese dioxide	ACGIH TLV (United States). TWA: 1 mg/m³, (Cu) 8 hours. Form: Total dust NIOSH REL (United States, 1/2013). Notes: as Mn STEL: 3 mg/m³, (as Mn) 15 minutes. Form: Fume

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TWA: 1 mg/m³, (as Mn) 10 hours. Form:

Fume

ACGIH TLV (United States, 3/2012). Notes:

as Mn

TWA: 0.2 mg/m³, (as Mn) 8 hours.

OSHA PEL (United States, 6/2010). Notes:

as Mn

CEIL: 5 mg/m³, (as Mn)

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

Notes: as Mn

CEIL: 5 mg/m³, (as Mn)

ACGIH TLV (United States, 3/2012).

TWA: 0.1 mg/m³, (as Ni) 8 hours. Form:

Inhalable fraction

OSHA PEL 1989 (United States, 3/1989). TWA: 0.1 mg/m³, (as Ni) 8 hours. Form:

Soluble

NIOSH REL (United States, 1/2013). Notes:

as Ni

TWA: 0.015 mg/m³, (as Ni) 10 hours. OSHA PEL (United States, 6/2010). Notes: as Ni

TWA: 1 mg/m³, (as Ni) 8 hours.

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

Notes: as Ni

TWA: 1 mg/m³, (as Ni) 8 hours.

8.1 Exposure controls

Nickel monoxide

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutorylimits.

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 sideshields.

Skin protection

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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.

: Personal protective equipment for the body should be selected based on the task being **Body protection**

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.

: Use a properly fitted, particulate filter respirator complying with an approved standard if Respiratory protection

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.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Solid. [Granular solid.]

Color : Brown. [Dark] : Not available. Odor : Not available. **Odor threshold** : Not available. Hq **Melting point** : Not available. **Boiling point** : Not available. : Not available. Flash point **Evaporation rate** : Not available.

Flammability (solid, gas) Lower and upper explosive

(flammable) limits

: Not available. : Not available.

Vapor pressure : Not available. Vapor density : Not available. Relative density : Not available.

Solubility : Insoluble in the following materials: cold water and hot water.

Solubility in water : Not available. Partition coefficient: n-

octanol/water

: Not available.

Auto-ignition temperature : Not available. Decomposition temperature : Not available. : Not available. **Viscosity**

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10. Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.1 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.1 Conditions to avoid : No specific data.

10.1 Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials, reducing

materials, metals, acids and alkalis.

10.1 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Activated Copper oxide	LD50 Oral	Rat	470 mg/kg	-
Activated Manganese dioxide	LD50 Oral	Rat	3478 mg/kg	-
Nickel monoxide	LD50 Oral	Rat	>5000 mg/kg	-

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Nickel monoxide	-	1	Known to be a human carcinogen.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
Activated Copper oxide	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

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Name	Category	Route of exposure	Target organs
Aluminium oxide Nickel monoxide	Category 1 Category 1	Inhalation Not determined	lungs lungs

Aspiration hazard

Not available.

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

Skin contact: May cause an allergic skin reaction.

Ingestion: Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion: No specific data.

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

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : Causes damage to organs through prolonged or repeated exposure. Once sensitized, a

severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

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Route	ATE value
	500.5 mg/kg
Inhalation (vapors)	23.41 mg/l

12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Aluminium oxide	Acute NOEC >100 mg/l	Algae	72 hours
	Acute NOEC >100 mg/l	Daphnia	48 hours
Activated Copper oxide	Acute EC50 0.014 mg/l Fresh water	Algae - Pseudokirchneriella	72 hours
		subcapitata - Exponential growth	
		phase	
	Acute LC50 2.6 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
	_	Neonate	
	Acute LC50 56000 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
	Chronic NOEC 0.421 mg/l Fresh water	Algae - Pseudokirchneriella	72 hours
	<u> </u>	subcapitata - Exponential growth	
		phase	

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Nickel monoxide	-	5613	high

12.1 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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

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.

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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.

14. Transport information

This Material 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

DOT / IMDG / IATA : Not regulated *

15. Regulatory information

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

U.S. Federal regulations : United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 307: Copper oxide; Nickel monoxide

Clean Water Act (CWA) 311: Sulphuric acid

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602

Class II Substances

DEA List I Chemicals

(Precursor Chemicals)

DEA List II Chemicals

(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
Sulphuric acid	< 0.1	Yes.	-	-	-	-

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Immediate (acute) health hazard

: Listed

: Not listed

: Not listed

: Not listed

Delayed (chronic) health hazard

Composition/information on ingredients

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Name	%	hazard	Sudden release of pressure	(acute) health	Delayed (chronic) health hazard
Aluminium oxide Activated Copper oxide Activated Manganese dioxide Nickel monoxide	≤ 13 ≤ 13	No. No. Yes. No.		No. Yes. Yes. Yes.	Yes. No. No. Yes.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Activated Copper oxide Activated Manganese dioxide	1344-28-1 1317-38-0 1313-13-9 1313-99-1	≤ 70 ≤ 13 ≤ 13 ≤ 1
Supplier notification	Activated Copper oxide Activated Manganese dioxide	1344-28-1 1317-38-0 1313-13-9 1313-99-1	≤ 70 ≤ 13 ≤ 13 ≤ 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

New York : None of the components are listed.

New Jersey : The following components are listed: ALUMINUM OXIDE; alpha-ALUMINA; COPPER

compounds; NICKEL OXIDE; NICKEL MONOXIDE

Pennsylvania : The following components are listed: MANGANESE COMPOUNDS; ALUMINUM

OXIDE (AL2O3); COPPER COMPOUNDS; NICKEL OXIDE (NIO)

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Nickel monoxide Sulphuric acid				No. No.

Canada inventory

: All components are listed or exempted.

International regulations

International lists

: Australia inventory (AICS): All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.

Japan inventory: All components are listed or exempted.

Korea inventory: All components are listed or exempted.

Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

Taiwan inventory (CSNN): Not determined.

Chemical Weapons Convention List Schedule

: Not listed

I Chemicals

Chemical Weapons Convention List Schedule

: Not listed

II Chemicals

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Chemical Weapons Convention List Schedule III Chemicals

: Not listed

16. Other information

Notice to reader

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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