Conforms to Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals

## SAFETY DATA SHEET



Gas Clean Filter SCD Kit, Part Number CP17990

### 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.

Product identifier Part no.	: Gas Clean Filter SCD Kit, Part Number CP17990 : CP17990	
Relevant identified uses of the	substance or mixture and uses advised against	
Material uses	: Analytical chemistry. A kit containing: 2 x CP17989 35 g Gas Clean Moisture / Sulfur Filter	CP17989
Supplier/Manufacturer	: Agilent Technologies Australia Pty Ltd 679 Springvale Road Mulgrave Victoria 3170, Australia 1800 802 402	
Emergency telephone number (with hours of operation)	: CHEMTREC®: +(61)-290372994	

### Section 2. Hazard(s) 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.

#### Classification of the substance or mixture

elacomoulon el mo capetan	
H318	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
H350	CARCINOGENICITY - Category 1
H372	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
H400	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
H410	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the

Percentage of the mixture consisting of ingredient(s) unknown nazarus to the aquatic environment: 52%

<u>GHS label elements</u> Hazard pictograms	
Signal word	: DANGER
Hazard statements	<ul> <li>         F318 - Causes serious eye damage.         H350 - May cause cancer.         H372 - Causes damage to organs through prolonged or repeated exposure. (lungs)         H410 - Very toxic to aquatic life with long lasting effects.     </li> </ul>
Precautionary statements	
Prevention	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P281 - Use personal protective equipment as required.</li> <li>P280 - Wear eye or face protection.</li> <li>P273 - Avoid release to the environment.</li> </ul>
Response	: P391 - Collect spillage.
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### Section 2. Hazard(s) identification

Storage	: Not applicable.
Disposal	<ul> <li>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Supplemental label elements	
Additional warning phrases	: Not applicable.

Other hazards which do not : None known. result in classification

### Section 3. Composition and ingredient information

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 : M

: Mixture (encapsulated in article)

#### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
vystalline silica, respirable powder	≥30 - ≤60	14808-60-7
aluminium oxide Zeolites	≥30 - ≤60 ≤10	1344-28-1 1318-02-1
Dicopper oxide	≤5	1317-39-1
nickel monoxide	≤0.3	1313-99-1

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.

### Section 4. First aid measures

Description of necessary fire	st ald measures
Eye contact	: Set medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Set medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Cet medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

### Section 4. First aid measures

Ingestion	: Set medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.				
Most important symptoms/e					
Potential acute health effect	—				
Eye contact	: 🖉auses serious eye damage.				
Inhalation	: No known significant effects or critical hazards.				
Skin contact	: No known significant effects or critical hazards.				
Ingestion	: No known significant effects or critical hazards.				
<u>Over-exposure signs/symp</u>	Over-exposure signs/symptoms				
Eye contact	: Adverse symptoms may include the following: pain watering redness				
Inhalation	: No specific data.				
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur				
Ingestion	: Adverse symptoms may include the following: stomach pains				
Indication of immediate med	lical 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)

### Section 5. Firefighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: This material is very 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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: metal oxide/oxides

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### Section 5. Firefighting measures

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 training.
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>
Hazchem code	: 2Z

### Section 6. Accidental release measures

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 spilt 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 non-emergency personnel".
Environmental precautions	:	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. Collect spillage.

### Methods and material for containment and cleaning up

Methods for 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.

### Section 7. Handling and storage

Precautions for safe handling	L	
Protective measures	:	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.
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.
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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls and 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.

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
rystalline silica, respirable powder	Safe Work Australia (Australia, 12/2019). TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form:
aluminium oxide	Respirable dust Safe Work Australia (Australia, 12/2019). TWA: 10 mg/m <sup>3</sup> 8 hours.
Zeolites	ACGIH TLV (United States, 1/2021).
	TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
Dicopper oxide	EH40/2005 WELs (United Kingdom (UK),
	<b>1/2020).</b> STEL: 2 mg/m³, (as Cu) 15 minutes. Form: Dusts and Mists TWA: 1 mg/m³, (as Cu) 8 hours. Form: Dusts and Mists
nickel monoxide	<b>ACGIH TLV (United States, 1/2021).</b> TWA: 0.2 mg/m <sup>3</sup> , (as Ni) 8 hours. Form: Inhalable fraction

**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 measur	<u>es</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	<ul> <li>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.</li> </ul>

### Section 8. Exposure controls and personal protection

appropriate standard or certification. Respirators must be used according to ensure proper fitting, training, and	should be and should be	
aspects of use.	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.

<u>Appearance</u>	
Physical state	: Solid. [Granular solid.]
Colour	: Black.
Odour	: None
Odour threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Boiling point, initial boiling point, and boiling range	: Not available.
Flash point	: Not applicable.
Evaporation rate	: Not available.
Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: Not applicable.
Vapour pressure	: Not available.
Relative vapour density	: Not applicable.
Relative density	: Not available.
Solubility	: Insoluble in the following materials: cold water and hot water.
Miscible with water	: No.
Partition coefficient: n- octanol/water	: Not applicable.
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: Not available.
Viscosity	: Not applicable.
Particle characteristics	
Median particle size	: Not available.

### Section 10. Stability and reactivity

Reactivity	: No specifi	No specific test data related to reactivity available for this product or its ingredients.				
Chemical stability	: The produ	ct is stable.				
Possibility of hazardous reactions	: Under nor	mal conditions of storage	and use, hazardous re	eactions will not o	ccur.	
Conditions to avoid	: No specifi	c data.				
Incompatible materials	: May react or be incompatible with oxidising materials. Reactive or incompatible with the following materials: acids and alkalis. Incompatible with hydrogen fluoride.					
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### Section 10. Stability and reactivity

#### **Hazardous decomposition** products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
auminium oxide	LD50 Oral	Rat	>10000 mg/kg	-
Zeolites	LC50 Inhalation Dusts and mists	Rat - Male,	>18.3 mg/l	4 hours
		Female	Ū	
	LD50 Oral	Rat - Male,	>5110 mg/kg	-
		Female		
Dicopper oxide	LD50 Dermal	Rat - Male,	>2000 mg/kg	-
		Female		
	LD50 Oral	Rat	470 mg/kg	-
nickel monoxide	LC50 Inhalation Dusts and mists	Rat - Male,	>5.08 mg/l	4 hours
		Female		

#### Irritation/Corrosion

Not available.

#### **Sensitisation**

Not available.

:	May cause skin sensitisation.
:	Not available.
:	Not available.
:	Not available.
:	Not available.
	<u>single exposure)</u>
	: : : :

#### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
rystalline silica, respirable powder	Category 1	inhalation	lungs
nickel monoxide	Category 1	-	-

#### **Aspiration hazard**

Not available.

Information on likely routes : Routes of entry anticipated: Oral, Dermal, Inhalation.

#### of exposure

auses serious eye damage.
o known significant effects or critical hazards.
o known significant effects or critical hazards.
o known significant effects or critical hazards.

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### Section 11. Toxicological information

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

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

Delayed and immediate effect	ts as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
General	: Causes damage to organs through prolonged or repeated exposure.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

#### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	(gases)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Sas Clean Filter SCD Kit, Part Number CP17990	5663.5	N/A	N/A	33.6	N/A
Dicopper oxide	470	N/A	N/A	11	N/A

### Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
aluminium oxide	•	Daphnia - Daphnia magna - Neonate	48 hours
Zeolites Dicopper oxide	Acute LC50 350 µg/l Marine water	Daphnia - Daphnia magna Daphnia - Daphnia similis Crustaceans - Balanus improvisus - Nauplii	21 days 48 hours 48 hours
	Acute LC50 0.075 mg/l Fresh water	Fish - Danio rerio	96 hours

#### Persistence and degradability

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### Section 12. Ecological information

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Zeolites	-	0.59 to 0.95	low
nickel monoxide	-	5613	high

#### Mobility in soil

Soil/water partition: Not available.coefficient (Koc)

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

### Section 13. Disposal considerations

Disposal methods : 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. 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 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.

	ADG	IMDG	ΙΑΤΑ
UN number	UN3077	UN3077	UN3077
UN proper shipping name	NVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dicopper oxide)	NVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dicopper oxide)	Environmentally hazardous substance, solid, n.o.s. (Dicopper oxide)
Transport hazard class(es)	9	9	9
Packing group	Ш	Ш	
Environmental hazards	Yes.	Yes.	Yes.

**Additional information** 

ADG

The product is not regulated as a dangerous good when transported by road or rail in either an IBC, or in other container types if ≤500 kg. This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. <u>Hazchem code</u> 2Z

#### Special provisions 274, 331, 335, 375, AU01

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### Section 14. Transport information

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IMDG :	This product is not regulated as a dangerous good when transported in sizes of $\leq 5 L$ or $\leq 5 kg$ , provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. <b>Emergency schedules</b> F-A, S-F <b>Special provisions</b> 274, 335, 966, 967, 969
IATA :	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8. Quantity limitation Passenger and Cargo Aircraft: 400 kg. Packaging instructions: 956. Cargo Aircraft Only: 400 kg. Packaging instructions: 956. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y956. Special provisions A97, A158, A179, A197, A215
Special precautions for user :	<b>Transport within user's premises:</b> 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 : Not available. to IMO instruments

### Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

Ingredient name	<u>Schedule</u>
Nickel oxide	Restricted hazardous chemical [For abrasive blasting at a concentration of greater than 1%] Restricted hazardous chemical [For abrasive blasting at a concentration of greater than 0.1% as nickel]

#### 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**

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Philippines	: All components are listed or exempted.			
New Zealand	: 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.			
Europe	: All compo	onents are listed or exempt	ed.	
China	: All compo	: All components are listed or exempted.		
Canada	: 🕅 compo	: 🕅 components are listed or exempted.		
Australia	: All components are listed or exempted.			

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### Section 15. Regulatory information

Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Thailand	: All components are listed or exempted.
Turkey	: All components are listed or exempted.
United States	: All components are active or exempted.
Viet Nam	: All components are listed or exempted.

### Section 16. Any other relevant information

<u>History</u>	
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Key to abbreviations	<ul> <li>ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate 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 SUSMP = Standard Uniform Schedule of Medicine and Poisons UN = United Nations</li> </ul>

#### Procedure used to derive the classification

Classification	Justification
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	Calculation method
CARCINOGENICITY - Category 1	Calculation method
	Calculation method
EXPOSURE - Category 1	
	Calculation method
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category	Calculation method
1	

References

: Not available.

✓ Indicates information that has changed from previously issued version.

Notice to reader

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